

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532834

Luminaire Tested: **GALN-SA8B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32570 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

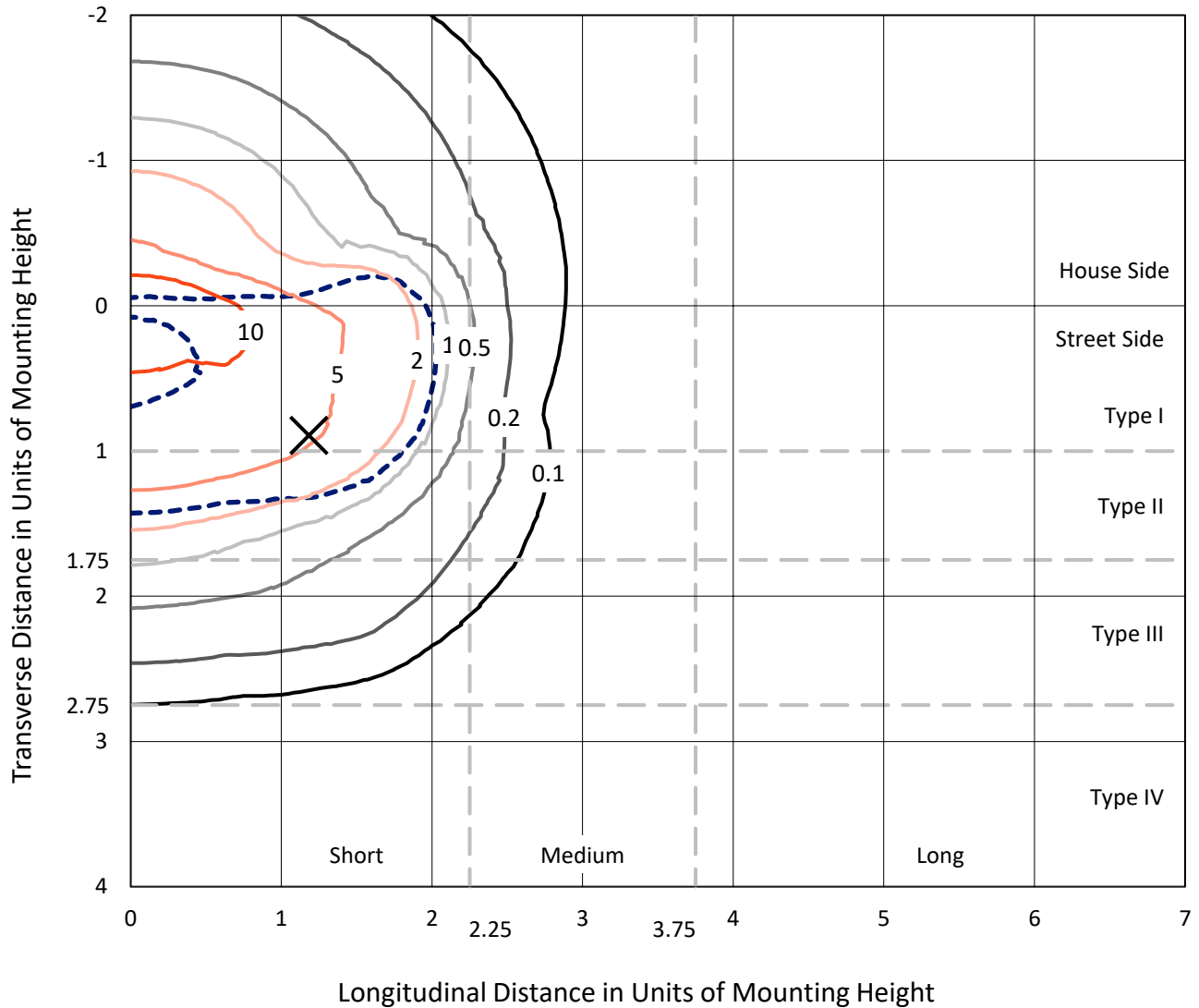
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

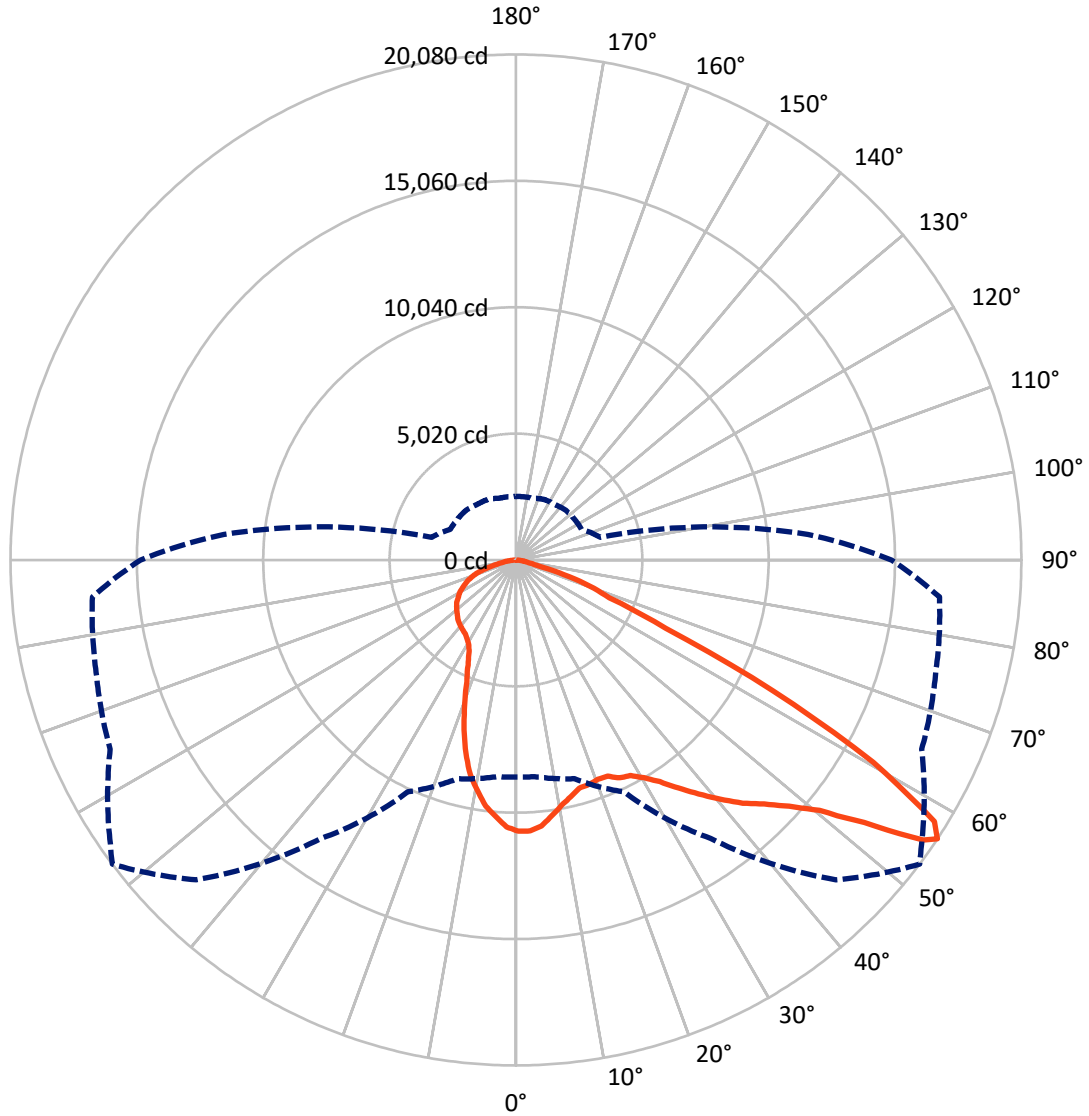
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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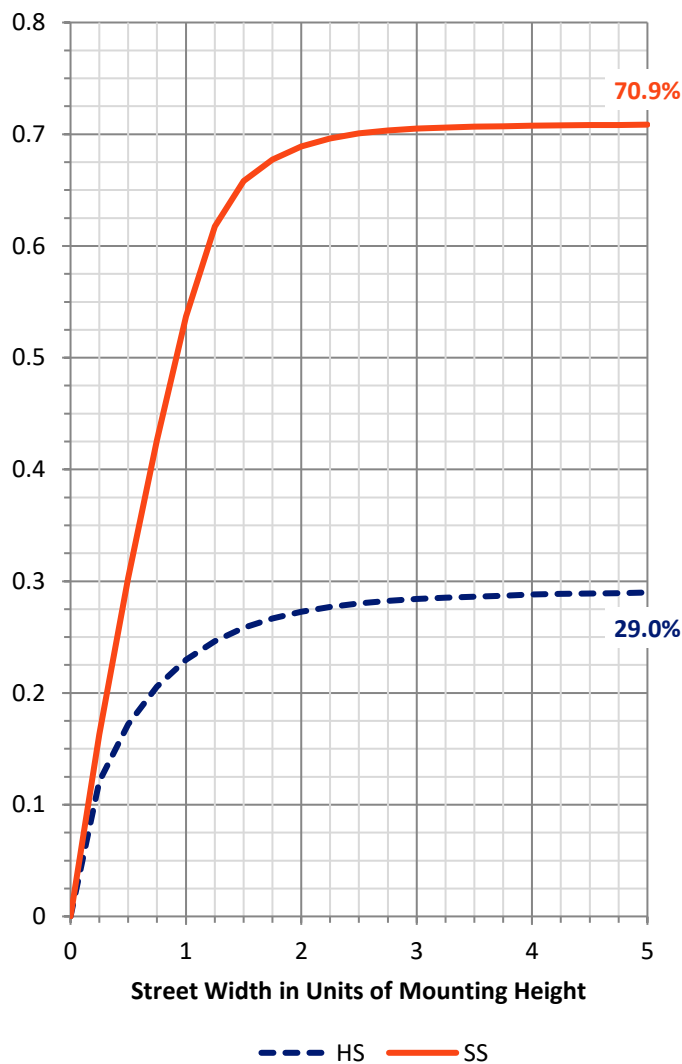
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9504.6	0.0	9504.6
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	23065.4	0.0	23065.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	32570.0	0.0	32570.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	953.9	2.9
10°-20°	2382.5	7.3
20°-30°	3513.2	10.8
30°-40°	5019.7	15.4
40°-50°	6909.0	21.2
50°-60°	8164.5	25.1
60°-70°	4351.1	13.4
70°-80°	1103.9	3.4
80°-90°	172.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32570.0	100.0
0°-180°	32570.0	100.0

**Coefficient of Utilization**



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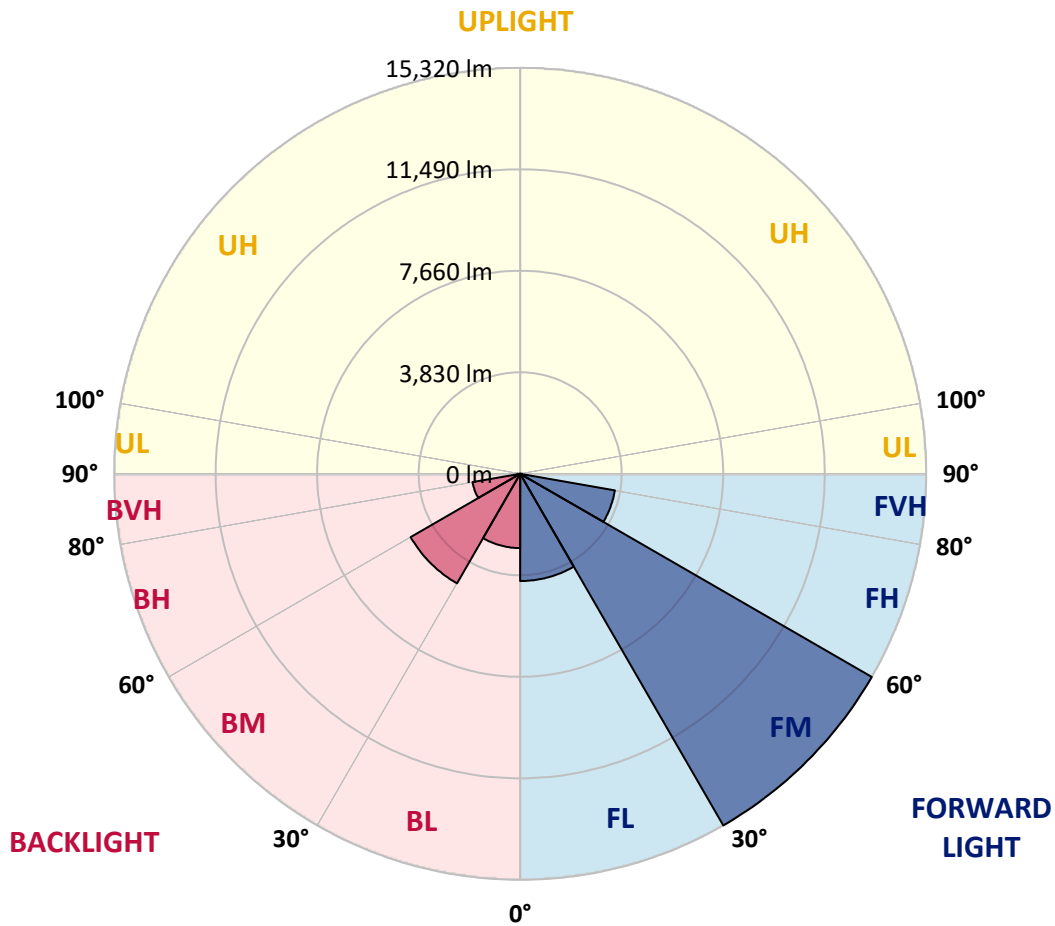
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4046.4	12.4			
FM (30°-60°)	15320.3	47.0			
FH (60°-80°)	3629.5	11.1			G2/5000
FVH (80°-90°)	69.2	0.2			G1/100
BL (0°-30°)	2803.3	8.6	B4/5000		
BM (30°-60°)	4772.9	14.7	B3/5000		
BH (60°-80°)	1825.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	102.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4
2.5°	10641.7	10549.8	10604.1	10583.2	10754.5	10804.7	10779.6	10800.5	10896.6	10850.6	10754.5
5°	9944.0	10073.5	10098.6	10161.3	10261.5	10457.9	10612.5	10654.3	10700.2	10913.3	10892.4
7.5°	9308.9	9396.7	9350.7	9534.5	9751.8	10069.3	10257.3	10290.8	10712.8	10829.8	10917.5
10°	8907.8	8820.1	9029.0	9079.1	9325.6	9689.1	9914.7	10052.6	10437.0	10900.8	10955.1
12.5°	8536.0	8506.7	8632.1	8774.1	9049.9	9425.9	9655.7	9710.0	10303.3	10792.2	11047.0
15°	8260.2	8226.8	8352.1	8456.6	8778.3	9112.5	9405.0	9559.6	10157.1	10729.5	10967.6
17.5°	8042.9	8038.8	8109.8	8297.8	8627.9	8907.8	9379.9	9388.3	10081.9	10825.6	11034.5
20°	8030.4	8026.2	8038.8	8247.7	8548.5	8891.1	9300.6	9375.8	10081.9	10758.7	11038.7
22.5°	8134.9	8068.0	8143.2	8276.9	8494.2	8920.3	9329.8	9496.9	10324.2	11088.8	11226.7
25°	8302.0	8318.7	8360.5	8406.4	8531.8	8987.2	9588.8	9726.7	10608.3	11372.9	11485.7
27.5°	8607.0	8598.6	8615.3	8640.4	8749.0	9049.9	9693.3	10048.4	11201.6	11878.5	11765.7
30°	9054.0	9024.8	9091.6	9179.4	9079.1	9250.4	10040.1	10307.5	11753.1	12388.2	12079.0
32.5°	9459.3	9568.0	9693.3	9730.9	9609.7	9643.2	10499.7	10771.3	12212.7	13014.9	12463.4
35°	9964.9	10052.6	10219.7	10336.7	10315.8	10215.6	11126.4	11485.7	12877.0	13474.5	12868.7
37.5°	10457.9	10562.4	10838.1	11184.9	10992.7	10946.7	11794.9	12091.6	13081.8	13721.0	13165.3
40°	11251.7	11247.6	11723.9	11903.5	12074.8	11995.5	12488.5	12588.8	13190.4	13666.7	13173.7
42.5°	12183.5	12125.0	12609.6	12889.6	13111.0	13119.4	13211.3	13177.9	13240.5	13391.0	13086.0
45°	13069.2	13194.6	13683.4	14184.8	14406.2	14431.3	13821.3	13758.6	13328.3	13311.6	12918.8
47.5°	14151.4	14180.6	14581.7	15241.9	15755.8	15580.3	14611.0	14473.1	13712.7	13842.2	13198.8
50°	14214.1	14431.3	14790.6	15567.8	17147.1	17101.2	15634.6	15375.6	14331.0	14594.3	13980.1
52.5°	12902.1	12852.0	13278.1	14548.3	17042.7	18613.6	17331.0	16712.6	15659.7	15459.1	15246.1
55°	9831.2	9948.2	10324.2	11606.9	14799.0	18634.5	19641.5	19135.9	17080.3	16737.7	16491.1
56°	8623.7	8640.4	8995.5	10165.4	13503.8	17970.2	20080.2	19670.7	17786.4	17264.1	16888.1
57.5°	7148.8	7052.7	7236.5	7875.8	11398.0	16566.4	19599.7	20000.8	18613.6	17832.3	17310.1
60°	5628.0	5607.1	5531.9	5648.9	7203.1	12480.1	16315.7	17218.1	18530.1	17297.5	16578.9
62.5°	4596.0	4491.5	4641.9	4809.0	5005.4	7742.1	11464.8	11995.5	14711.3	13808.8	12455.1
65°	3564.0	3513.8	3701.8	4245.0	4362.0	4917.7	6530.4	6939.9	8686.4	8531.8	7512.3
67.5°	2452.6	2460.9	2623.9	3451.1	4044.4	3994.3	3998.5	4211.6	4533.3	3367.6	2933.1
70°	1554.3	1550.1	1637.8	2222.8	3254.8	3288.2	3121.1	3058.4	2899.6	1754.8	1859.3
72.5°	998.6	969.3	1015.3	1228.4	1683.8	1947.0	2005.5	2043.1	1679.6	1378.8	1495.8
75°	564.0	534.8	518.1	572.4	664.3	768.8	844.0	869.1	973.5	1044.5	1107.2
77.5°	171.3	154.6	188.0	250.7	330.1	442.9	539.0	555.7	656.0	739.5	802.2
80°	75.2	83.6	117.0	167.1	234.0	313.4	380.2	405.3	472.1	534.8	551.5
82.5°	46.0	50.1	79.4	112.8	162.9	221.4	271.6	279.9	346.8	396.9	409.5
85°	16.7	20.9	41.8	66.9	104.5	142.1	142.1	154.6	142.1	142.1	154.6
87.5°	0.0	0.0	4.2	8.4	8.4	12.5	16.7	16.7	20.9	25.1	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4	10775.4
2.5°	10804.7	10783.8	10750.4	10629.2	10616.7	10579.1	10370.2	10336.7	10370.2	10269.9	10278.2
5°	10783.8	10846.5	10595.8	10474.6	10249.0	10086.0	9898.0	9801.9	9630.6	9522.0	9643.2
7.5°	10875.7	10850.6	10537.3	10274.1	9935.6	9522.0	9191.9	9003.9	8703.1	8619.5	8682.2
10°	10842.3	10708.6	10340.9	9994.1	9354.9	8991.4	8456.6	7938.5	7654.4	7508.1	7487.2
12.5°	10796.3	10758.7	10144.5	9547.1	8874.4	8109.8	7357.7	6868.9	6405.1	6204.5	6233.8
15°	10850.6	10533.1	9776.9	9020.6	8126.5	7123.7	6313.2	5682.3	5360.6	5231.0	5231.0
17.5°	10825.6	10424.5	9601.4	8431.5	7299.2	6112.6	5222.7	4842.5	4708.8	4708.8	4746.4
20°	10838.1	10495.5	9246.2	7842.4	6321.5	5147.5	4499.9	4362.0	4420.5	4441.4	4462.3
22.5°	10909.1	10261.5	8899.5	7194.8	5414.9	4403.8	4086.2	4090.4	4194.9	4307.7	4286.8
25°	10996.9	10169.6	8477.5	6551.3	4721.3	4040.3	3940.0	3927.5	4006.8	4065.3	4073.7
27.5°	10921.7	10010.8	8047.1	5749.1	4153.1	3797.9	3777.0	3785.4	3810.5	3927.5	3889.9
30°	11168.2	10056.8	7508.1	5076.4	3839.7	3718.6	3693.5	3680.9	3718.6	3752.0	3722.7
32.5°	11473.2	9893.9	7107.0	4428.8	3685.1	3660.1	3609.9	3593.2	3614.1	3580.7	3597.4
35°	11606.9	9864.6	6584.8	3965.1	3564.0	3543.1	3513.8	3509.6	3513.8	3484.6	3459.5
37.5°	11682.1	10002.5	5987.3	3752.0	3488.8	3509.6	3442.8	3434.4	3359.2	3375.9	3388.5
40°	11811.6	9789.4	5502.6	3547.2	3442.8	3401.0	3342.5	3330.0	3279.8	3250.6	3279.8
42.5°	11623.6	9726.7	5026.3	3459.5	3375.9	3330.0	3288.2	3217.2	3200.5	3175.4	3158.7
45°	11473.2	9367.4	4600.1	3350.9	3296.6	3271.5	3192.1	3116.9	3054.2	3079.3	3041.7
47.5°	11586.0	9242.1	4178.1	3259.0	3187.9	3158.7	3079.3	3020.8	2958.1	2928.9	2920.5
50°	12037.2	9476.0	3823.0	3192.1	3096.0	3079.3	2974.8	2908.0	2849.5	2828.6	2837.0
52.5°	13115.2	10115.3	3580.7	3054.2	3008.3	2933.1	2874.6	2791.0	2753.4	2686.5	2728.3
55°	14481.5	11155.7	3518.0	2924.7	2899.6	2832.8	2753.4	2690.7	2619.7	2565.4	2552.8
56°	14920.2	11652.9	3467.9	2874.6	2832.8	2795.2	2690.7	2653.1	2540.3	2527.8	2519.4
57.5°	15275.3	12091.6	3476.2	2778.5	2736.7	2703.3	2640.6	2548.7	2473.5	2427.5	2448.4
60°	14473.1	11318.6	3317.4	2632.2	2623.9	2561.2	2473.5	2431.7	2339.8	2285.4	2272.9
62.5°	10758.7	7683.6	2690.7	2444.2	2440.0	2373.2	2272.9	2227.0	2210.2	2135.0	2135.0
65°	6196.2	4817.4	2327.2	2289.6	2256.2	2189.3	2089.1	2051.5	2009.7	1984.6	1963.7
67.5°	2644.8	2498.5	2114.1	2110.0	2072.4	1988.8	1888.5	1830.0	1775.7	1725.6	1750.6
70°	1917.8	1947.0	1909.4	1888.5	1842.6	1738.1	1650.4	1579.3	1495.8	1462.4	1487.4
72.5°	1520.8	1583.5	1637.8	1642.0	1587.7	1466.5	1370.4	1274.3	1182.4	1136.5	1157.3
75°	1153.2	1194.9	1249.3	1261.8	1182.4	1098.9	1006.9	906.7	835.6	781.3	789.7
77.5°	831.5	823.1	873.2	864.9	827.3	768.8	685.2	593.3	513.9	463.8	468.0
80°	568.2	580.8	610.0	605.8	559.9	522.3	459.6	384.4	325.9	284.1	275.8
82.5°	396.9	417.8	442.9	422.0	384.4	346.8	300.8	246.5	200.6	167.1	158.8
85°	142.1	162.9	188.0	200.6	213.1	204.7	171.3	137.9	100.3	83.6	79.4
87.5°	29.2	33.4	37.6	37.6	37.6	33.4	29.2	29.2	25.1	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)