

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: P531741

Luminaire Tested: **GALN-SA7A-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18592 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

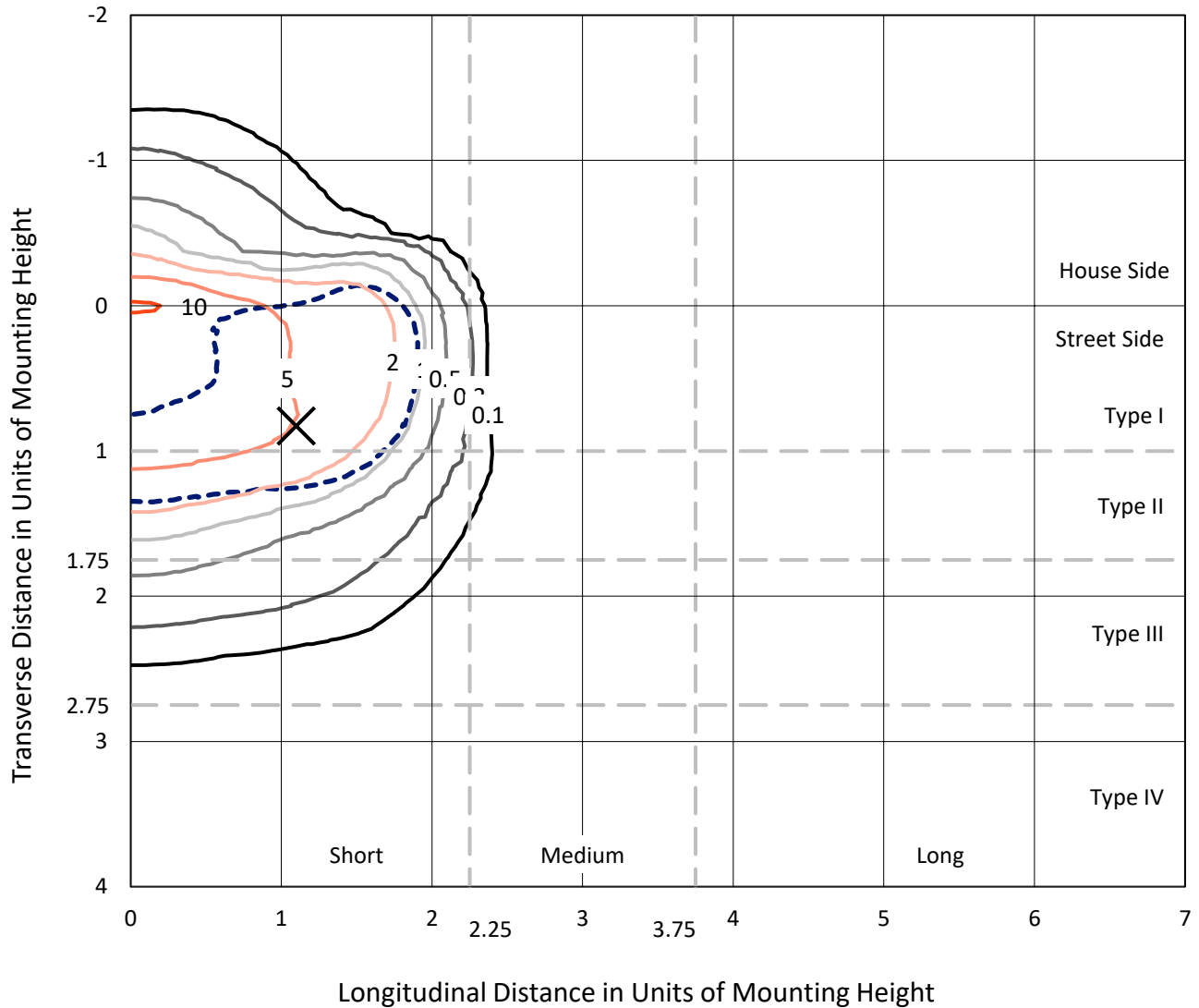
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

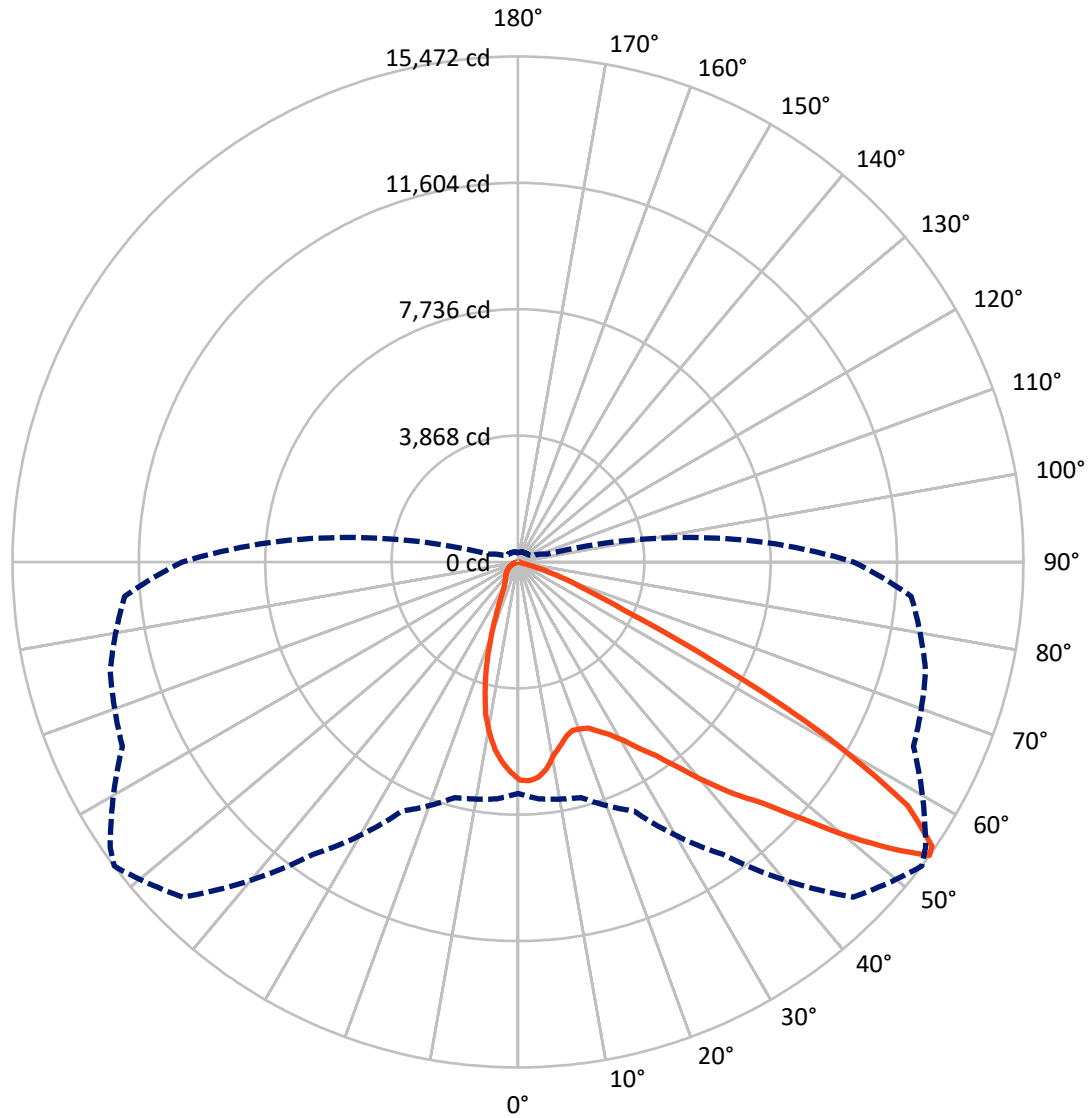
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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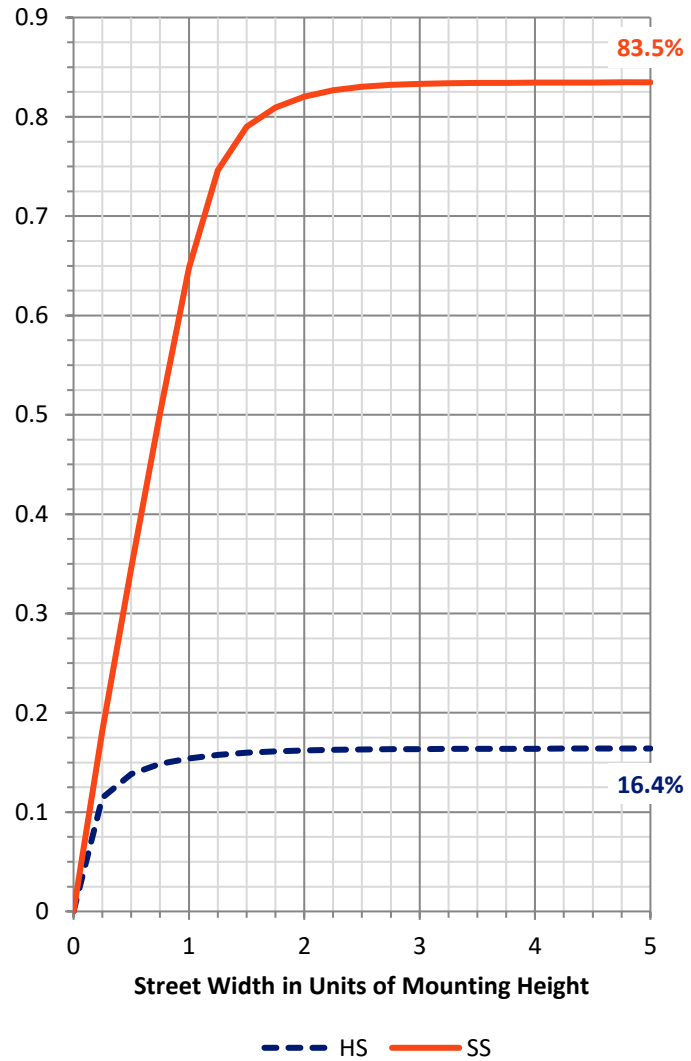
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3076.1	0.0	3076.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15515.9	0.0	15515.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18592.0	0.0	18592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.0	3.1
10°-20°	1313.6	7.1
20°-30°	1866.9	10.0
30°-40°	2881.1	15.5
40°-50°	4517.3	24.3
50°-60°	5247.5	28.2
60°-70°	1982.8	10.7
70°-80°	188.6	1.0
80°-90°	21.2	0.1
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°	18592.0	100.0
0°-180°	18592.0	100.0

**Coefficient of Utilization**



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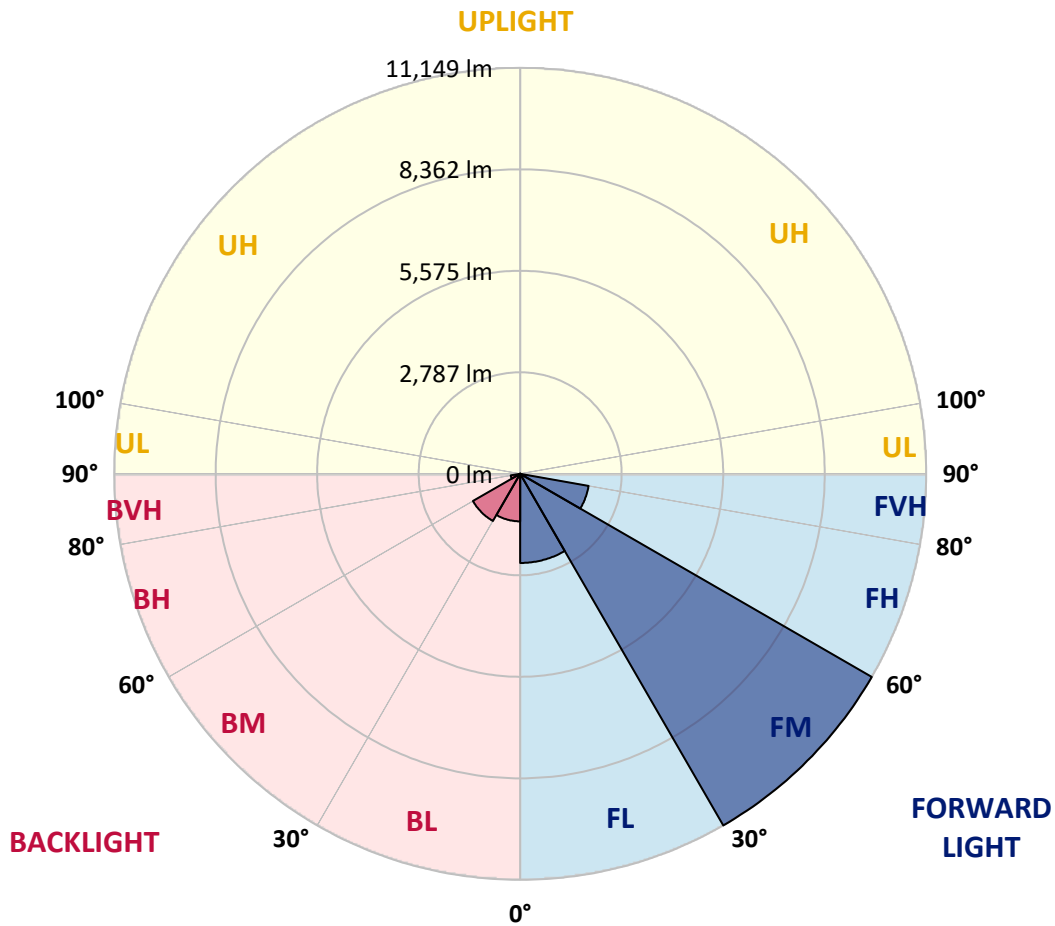
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2448.1	13.2			
FM (30°-60°)	11149.0	60.0			
FH (60°-80°)	1907.8	10.3			G2/5000
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	1305.4	7.0	B3/2500		
BM (30°-60°)	1496.9	8.1	B2/2500		
BH (60°-80°)	263.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9
2.5°	6643.3	6584.4	6643.3	6650.2	6691.8	6729.9	6705.6	6761.1	6729.9	6695.3	6684.9
5°	6106.4	6186.1	6189.6	6314.2	6286.5	6515.1	6615.6	6587.9	6757.6	6747.2	6723.0
7.5°	5625.0	5593.8	5635.4	5780.8	5964.4	6227.7	6373.1	6369.7	6612.1	6785.3	6768.0
10°	5178.2	5174.7	5261.3	5375.6	5531.5	5808.6	6009.4	6109.9	6487.4	6750.7	6788.8
12.5°	4876.8	4863.0	4956.5	5050.0	5295.9	5510.7	5767.0	5815.5	6248.4	6629.4	6691.8
15°	4679.4	4710.6	4717.5	4897.6	5053.5	5337.5	5538.4	5638.8	6137.6	6532.5	6771.5
17.5°	4644.8	4686.3	4689.8	4838.7	5005.0	5244.0	5420.6	5555.7	6044.1	6581.0	6774.9
20°	4714.0	4689.8	4710.6	4804.1	4966.9	5195.5	5451.8	5496.8	6012.9	6605.2	6813.0
22.5°	4911.5	4904.5	4852.6	4928.8	5043.1	5282.1	5524.5	5593.8	6103.0	6729.9	6844.2
25°	5129.7	5167.8	5119.3	5108.9	5188.6	5424.1	5746.2	5836.3	6404.3	6955.0	6941.2
27.5°	5538.4	5500.3	5500.3	5451.8	5431.0	5545.3	5985.2	6134.1	6740.3	7246.0	7052.0
30°	5929.8	5971.3	5940.2	5957.5	5818.9	5808.6	6324.6	6508.2	7336.0	7689.3	7287.5
32.5°	6549.8	6494.4	6546.3	6501.3	6317.7	6130.7	6785.3	6975.8	8056.5	8198.5	7640.8
35°	7065.9	7041.6	7263.3	7256.4	6958.5	6774.9	7273.7	7557.7	8558.7	8808.1	8056.5
37.5°	7800.2	7755.1	8008.0	8129.2	7862.5	7588.9	7973.3	8302.4	9026.3	9296.5	8482.5
40°	8555.2	8669.5	9009.0	9209.9	8925.8	8562.2	8828.9	8929.3	9338.0	9615.1	8773.4
42.5°	9511.2	9677.5	10023.8	10197.0	10172.8	9777.9	9698.2	9694.8	9563.2	9525.1	8988.2
45°	10429.1	10366.7	10900.1	11277.7	11582.5	11468.2	10536.4	10432.5	9919.9	9660.1	9043.6
47.5°	10830.9	10810.1	11173.8	11845.7	12884.8	13026.8	11755.7	11353.9	10522.6	10228.2	9344.9
50°	10311.3	10418.7	10778.9	11523.6	13116.9	14201.0	13252.0	12711.6	11225.7	10920.9	10058.5
52.5°	8614.1	8686.9	9029.8	9975.3	12327.2	14893.7	14685.9	14374.2	12517.7	12012.0	11301.9
54°	7083.2	7277.1	7464.2	8413.2	10920.9	14509.3	15472.2	15233.2	13359.3	12919.4	12084.7
55°	6168.8	6283.1	6418.2	7363.7	9947.6	13858.1	15382.1	15402.9	13923.9	13203.5	12611.2
57.5°	4506.2	4585.9	4447.3	4866.4	6830.3	11253.4	14069.4	14630.5	14685.9	13629.5	12933.3
60°	3442.9	3477.5	3321.6	3387.5	4246.4	7724.0	10882.8	11558.2	13248.5	11911.5	10955.6
62.5°	2670.5	2677.4	2673.9	2788.2	2926.8	4544.3	6806.1	7405.3	9133.7	8458.3	7439.9
65°	1967.4	1936.2	1991.6	2338.0	2497.3	2857.5	3584.9	4021.3	4963.4	4191.0	2996.1
67.5°	1274.6	1285.0	1340.4	1738.8	2140.5	2192.5	2206.4	2171.7	2175.2	1198.4	751.6
70°	765.5	782.8	765.5	983.7	1530.9	1572.5	1437.4	1402.8	1094.5	284.0	280.6
72.5°	453.7	429.5	384.5	422.6	637.3	762.0	685.8	682.3	429.5	166.3	166.3
75°	190.5	173.2	142.0	128.2	169.7	162.8	162.8	145.5	114.3	110.8	103.9
77.5°	38.1	38.1	27.7	31.2	41.6	48.5	58.9	58.9	69.3	69.3	65.8
80°	0.0	3.5	10.4	20.8	31.2	45.0	52.0	52.0	58.9	58.9	48.5
82.5°	0.0	3.5	10.4	20.8	27.7	41.6	52.0	52.0	58.9	62.3	52.0
85°	0.0	3.5	10.4	17.3	27.7	34.6	34.6	31.2	24.2	20.8	13.9
87.5°	0.0	0.0	3.5	6.9	3.5	6.9	6.9	6.9	6.9	6.9	6.9
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°	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9
2.5°	6709.1	6705.6	6622.5	6487.4	6456.3	6342.0	6328.1	6258.8	6296.9	6168.8	6154.9
5°	6653.7	6612.1	6511.7	6425.1	6172.2	5992.1	5850.1	5676.9	5576.5	5593.8	5528.0
7.5°	6733.4	6626.0	6449.3	6148.0	5839.7	5524.5	5354.8	5001.5	4873.4	4682.9	4655.2
10°	6650.2	6570.6	6296.9	5798.2	5372.1	4918.4	4520.1	4128.7	3830.8	3702.7	3674.9
12.5°	6643.3	6504.8	6047.5	5493.4	4876.8	4225.7	3647.2	3158.9	2864.4	2698.2	2660.1
15°	6535.9	6369.7	5767.0	5022.3	4170.2	3359.7	2729.4	2258.3	2033.2	1936.2	1963.9
17.5°	6546.3	6296.9	5486.4	4523.5	3474.0	2466.1	1863.4	1621.0	1562.1	1586.4	1586.4
20°	6535.9	6134.1	5147.0	3948.6	2660.1	1711.0	1368.1	1281.6	1319.7	1395.9	1378.5
22.5°	6480.5	6057.9	4835.3	3342.4	1957.0	1267.7	1098.0	1101.4	1160.3	1253.8	1274.6
25°	6522.1	5888.2	4440.4	2729.4	1427.0	1011.4	952.5	976.8	1039.1	1108.4	1122.2
27.5°	6490.9	5767.0	4028.2	2119.8	1042.6	869.4	865.9	893.6	921.3	973.3	973.3
30°	6525.5	5656.2	3623.0	1576.0	859.0	796.6	782.8	803.6	831.3	841.7	838.2
32.5°	6653.7	5573.0	3155.4	1177.6	758.5	727.4	727.4	727.4	723.9	737.8	741.2
35°	6934.2	5586.9	2743.2	910.9	692.7	668.5	658.1	644.2	637.3	644.2	647.7
37.5°	7239.0	5580.0	2317.2	775.9	644.2	623.5	599.2	578.4	575.0	581.9	571.5
40°	7374.1	5645.8	1922.3	696.2	599.2	575.0	536.9	519.5	523.0	529.9	523.0
42.5°	7557.7	5666.5	1666.0	633.8	557.6	519.5	495.3	474.5	471.1	481.4	478.0
45°	7554.2	5548.8	1395.9	599.2	519.5	478.0	446.8	429.5	429.5	436.4	439.9
47.5°	7775.9	5531.5	1198.4	568.0	491.8	450.3	412.2	398.3	394.9	394.9	387.9
50°	8292.0	5773.9	1046.0	533.4	457.2	419.1	387.9	370.6	356.8	349.8	346.4
52.5°	9299.9	6529.0	928.3	491.8	419.1	387.9	360.2	346.4	329.0	311.7	308.3
54°	10276.7	7308.3	921.3	457.2	387.9	367.1	342.9	336.0	315.2	290.9	284.0
55°	10716.6	7762.1	945.6	429.5	367.1	353.3	332.5	325.6	304.8	277.1	273.6
57.5°	11080.2	7938.7	931.7	356.8	332.5	329.0	311.7	301.3	277.1	239.0	232.1
60°	8918.9	6002.5	668.5	315.2	304.8	297.9	284.0	277.1	245.9	204.4	200.9
62.5°	5635.4	3453.3	426.0	277.1	266.7	256.3	239.0	232.1	204.4	162.8	152.4
65°	2400.3	1430.5	287.5	245.9	228.6	211.3	197.4	187.0	162.8	121.2	117.8
67.5°	623.5	509.2	239.0	214.7	190.5	166.3	155.9	138.5	110.8	83.1	79.7
70°	280.6	256.3	200.9	180.1	152.4	128.2	114.3	97.0	72.7	55.4	52.0
72.5°	166.3	162.8	152.4	135.1	114.3	97.0	83.1	65.8	48.5	31.2	31.2
75°	103.9	100.4	103.9	93.5	79.7	72.7	62.3	45.0	27.7	13.9	13.9
77.5°	62.3	62.3	62.3	58.9	55.4	55.4	45.0	27.7	13.9	3.5	3.5
80°	48.5	48.5	52.0	48.5	48.5	48.5	38.1	20.8	6.9	0.0	0.0
82.5°	48.5	52.0	58.9	55.4	48.5	41.6	34.6	20.8	6.9	0.0	0.0
85°	13.9	10.4	17.3	24.2	34.6	31.2	24.2	17.3	6.9	0.0	0.0
87.5°	6.9	6.9	6.9	6.9	3.5	3.5	3.5	3.5	3.5	0.0	0.0
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)