

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: P532654

Luminaire Tested: **GALN-SA8A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29102 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

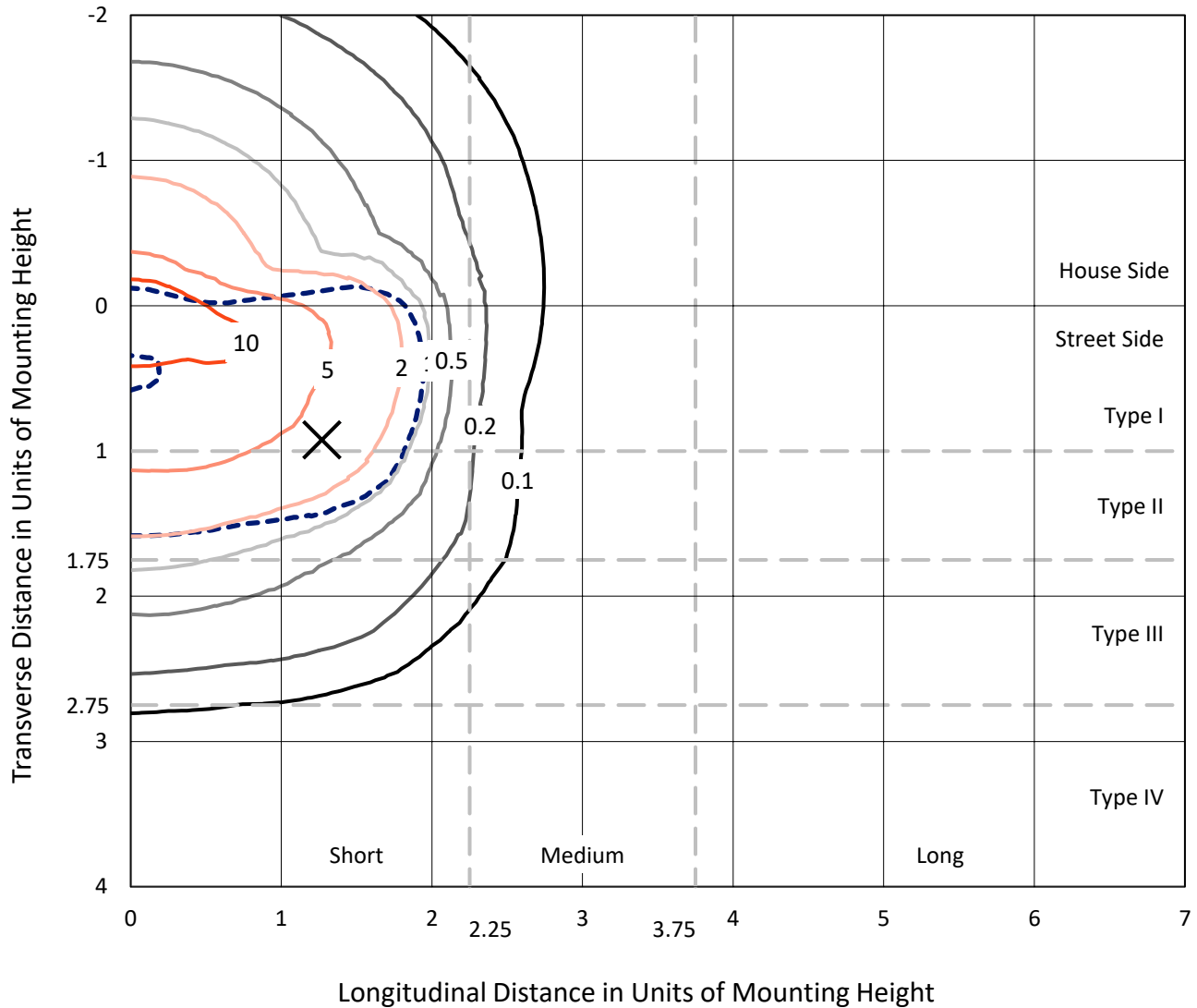
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

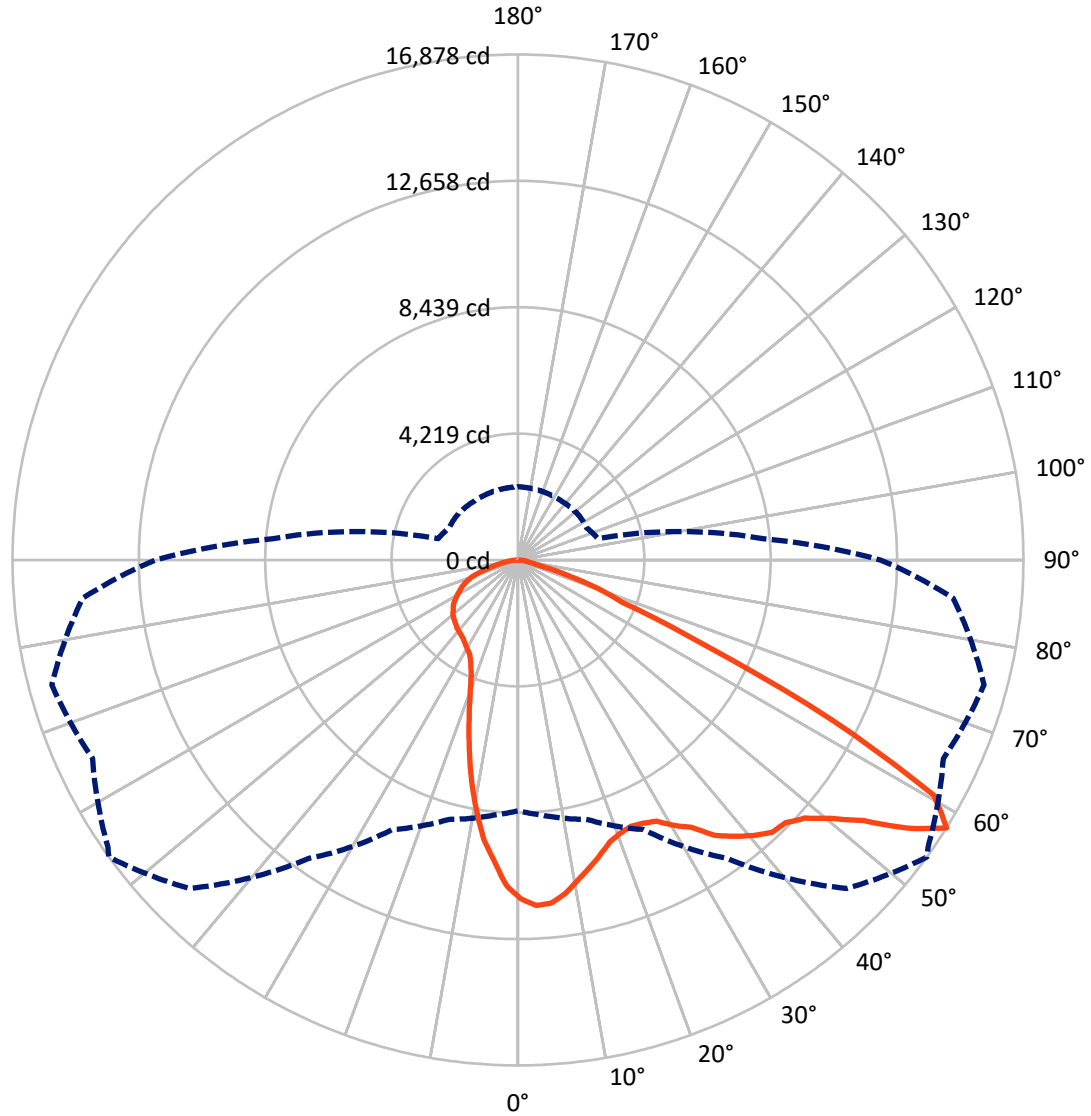
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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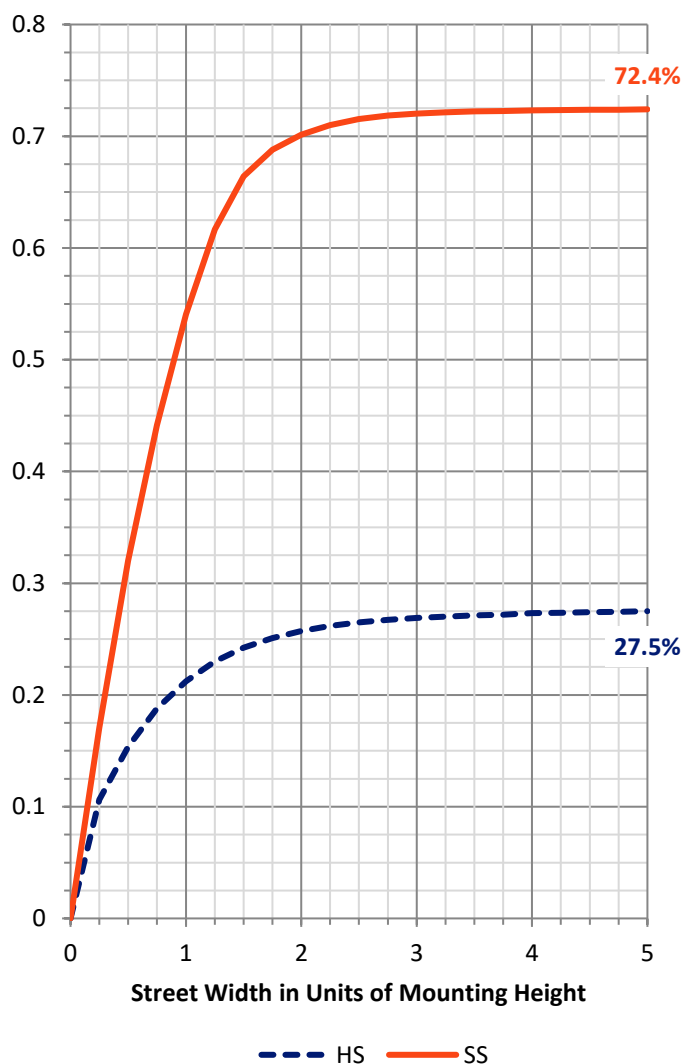
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8051.2	0.0	8051.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	21050.8	0.0	21050.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	29102.0	0.0	29102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.5	3.4
10°-20°	2258.7	7.8
20°-30°	3173.5	10.9
30°-40°	4436.5	15.2
40°-50°	6006.2	20.6
50°-60°	7315.8	25.1
60°-70°	3810.4	13.1
70°-80°	976.4	3.4
80°-90°	148.9	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°	29102.0	100.0
0°-180°	29102.0	100.0

Coefficient of Utilization



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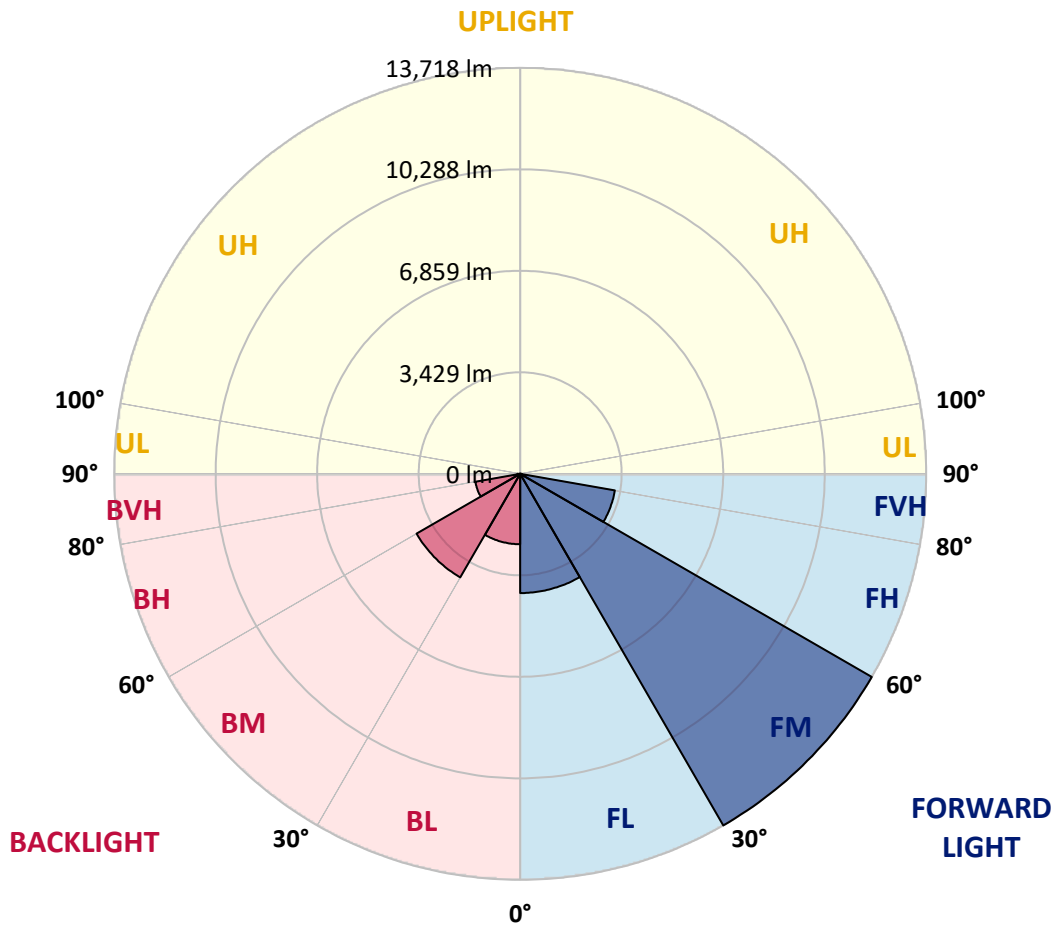
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4028.1	13.8			
FM (30°-60°)	13717.8	47.1			
FH (60°-80°)	3248.6	11.2			G2/5000
FVH (80°-90°)	56.3	0.2			G1/100
BL (0°-30°)	2379.6	8.2	B3/2500		
BM (30°-60°)	4040.8	13.9	B3/5000		
BH (60°-80°)	1538.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	92.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6
2.5°	11633.3	11588.4	11595.9	11655.8	11580.9	11551.0	11551.0	11405.1	11416.4	11315.4	11289.2
5°	11364.0	11259.2	11330.3	11420.1	11435.1	11465.0	11513.6	11476.2	11371.5	11263.0	11087.2
7.5°	10660.7	10754.3	10780.4	10844.0	10978.7	11102.1	11255.5	11150.8	11147.0	11038.5	10933.8
10°	10043.5	9987.4	10129.6	10223.1	10447.5	10653.3	10888.9	10877.7	10933.8	10810.4	10630.8
12.5°	9430.1	9385.2	9452.5	9665.7	9980.0	10279.2	10559.8	10455.0	10754.3	10731.8	10346.5
15°	8779.2	8812.9	8910.1	9108.4	9519.9	9879.0	10234.3	10238.1	10503.6	10593.4	10077.2
17.5°	8322.9	8285.5	8408.9	8704.4	9071.0	9501.2	9905.1	9987.4	10395.2	10447.5	9994.9
20°	7982.5	8034.8	8195.7	8345.3	8768.0	9287.9	9744.3	9774.2	10372.7	10514.9	9864.0
22.5°	7900.2	7870.3	7922.6	8165.8	8513.6	9078.5	9658.3	9770.5	10369.0	10492.4	9617.1
25°	7814.1	7911.4	7907.7	8150.8	8405.2	8910.1	9729.3	9852.8	10567.2	10608.4	9650.8
27.5°	8008.7	7997.4	8102.2	8120.9	8435.1	8955.0	9879.0	9972.5	10896.4	10862.7	9677.0
30°	8203.2	8147.1	8210.6	8431.3	8577.2	9213.1	10290.4	10282.9	11322.8	11300.4	9759.3
32.5°	8442.6	8416.4	8457.5	8652.0	8898.9	9557.3	10638.3	10859.0	11756.7	11898.9	10043.5
35°	8487.5	8595.9	8693.2	8955.0	9306.6	10114.6	11292.9	11476.2	12258.0	12703.1	10585.9
37.5°	8771.7	8812.9	9041.1	9504.9	9826.6	10859.0	11708.1	11824.1	12714.3	13219.3	11158.2
40°	9074.7	9123.4	9467.5	9953.8	10395.2	11345.3	12097.1	12134.5	12860.2	13615.8	11532.3
42.5°	9486.2	9531.1	9871.5	10481.2	11072.2	11760.5	12441.3	12482.4	12849.0	14072.2	12127.1
45°	9912.6	10021.1	10421.3	11113.4	11644.5	12246.8	12519.8	12688.2	12953.7	14479.9	12609.6
47.5°	10511.1	10612.1	10941.3	11618.3	12239.3	12673.2	12882.7	13047.3	13204.4	14835.3	12920.1
50°	11147.0	11165.7	11566.0	12179.4	12635.8	13155.7	13559.7	13615.8	13533.5	15246.7	13447.5
52.5°	11614.6	11674.5	11984.9	12583.4	13264.2	13903.9	14457.5	14517.3	14356.5	15400.1	13627.1
55°	10840.3	10806.6	11311.6	12108.4	13686.9	15018.6	15822.8	15867.7	14955.0	15875.2	14214.3
57.5°	8379.0	8539.8	8970.0	9931.3	12160.7	15512.3	16877.6	16716.8	15673.2	16114.6	14588.4
60°	6089.7	6052.3	6340.3	6983.7	9164.5	13369.0	15957.5	16122.0	15085.9	14524.8	12029.8
62.5°	4960.1	4907.7	4930.1	4952.6	5913.9	8872.7	11812.9	11809.1	11618.3	10440.1	8113.4
65°	3965.0	4088.5	4099.7	4268.0	4391.5	5300.4	6845.3	7211.9	6280.5	5150.8	3736.9
67.5°	2988.7	2943.9	3093.5	3692.0	3923.9	3826.6	3736.9	3778.0	2685.8	1937.6	1825.4
70°	1761.8	1743.1	1922.7	2573.5	3231.9	3041.1	2816.7	2820.4	1844.1	1354.1	1507.5
72.5°	965.1	961.3	998.7	1305.5	1836.6	1907.7	1690.8	1743.1	1099.7	1096.0	1178.3
75°	538.6	527.4	516.2	576.1	662.1	699.5	714.5	721.9	755.6	845.4	879.0
77.5°	198.3	190.8	190.8	220.7	280.5	351.6	445.1	452.6	534.9	613.5	647.1
80°	67.3	74.8	101.0	138.4	187.0	250.6	303.0	310.5	377.8	430.2	441.4
82.5°	41.1	44.9	67.3	97.3	134.7	175.8	224.4	228.2	280.5	314.2	329.2
85°	18.7	22.4	37.4	59.8	86.0	116.0	119.7	119.7	116.0	119.7	112.2
87.5°	0.0	0.0	7.5	7.5	7.5	11.2	15.0	11.2	18.7	22.4	22.4
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°	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6	11311.6
2.5°	11210.6	11169.5	11042.3	10930.1	10896.4	10746.8	10526.1	10552.3	10391.4	10466.2	10387.7
5°	11057.3	10918.8	10593.4	10455.0	10092.2	9927.6	9815.4	9534.8	9403.9	9377.7	9265.5
7.5°	10664.5	10578.5	10170.7	9796.7	9411.4	9082.2	8659.5	8371.5	8165.8	8109.6	7945.1
10°	10354.0	10163.2	9598.4	9029.8	8480.0	7907.7	7357.8	6927.6	6718.1	6475.0	6392.7
12.5°	10047.3	9759.3	8996.2	8266.8	7556.0	6834.1	6168.3	5644.6	5188.2	5079.8	5042.3
15°	9856.5	9355.3	8457.5	7578.5	6568.5	5625.9	4960.1	4615.9	4335.4	4219.4	4301.7
17.5°	9605.9	9022.4	7941.3	6770.5	5659.5	4791.7	4234.4	4021.2	3920.2	3931.4	3897.7
20°	9291.7	8708.1	7264.3	6037.3	4847.8	4155.8	3837.9	3759.3	3774.3	3800.5	3789.2
22.5°	9067.2	8326.6	6774.3	5289.2	4189.5	3804.2	3673.3	3617.2	3665.8	3688.2	3669.5
25°	8895.2	8001.2	6179.5	4627.1	3807.9	3606.0	3546.1	3542.4	3617.2	3647.1	3628.4
27.5°	8738.1	7698.2	5588.5	4122.2	3553.6	3452.6	3433.9	3478.8	3527.4	3557.3	3583.5
30°	8644.6	7466.3	5034.9	3699.5	3426.4	3377.8	3344.1	3385.3	3411.4	3441.4	3426.4
32.5°	8734.3	7301.7	4500.0	3460.1	3321.7	3273.0	3317.9	3291.7	3336.6	3362.8	3321.7
35°	9014.9	7155.8	4118.4	3332.9	3202.0	3220.7	3228.1	3216.9	3235.6	3213.2	3261.8
37.5°	9291.7	7103.4	3766.8	3224.4	3145.9	3145.9	3138.4	3115.9	3153.3	3145.9	3168.3
40°	9643.3	7137.1	3467.5	3108.4	3093.5	3086.0	3056.1	3052.3	3037.4	3041.1	3048.6
42.5°	9950.0	7211.9	3295.5	3033.6	3044.9	3059.8	3003.7	2958.8	2977.5	2940.1	2940.1
45°	10275.5	7279.2	3142.1	2981.3	2970.0	2966.3	2921.4	2895.2	2880.3	2884.0	2917.7
47.5°	10787.9	7376.5	3026.2	2910.2	2917.7	2861.6	2850.3	2816.7	2831.6	2854.1	2857.8
50°	11150.8	7582.2	2936.4	2827.9	2854.1	2816.7	2749.4	2734.4	2734.4	2771.8	2764.3
52.5°	11405.1	7870.3	2850.3	2738.1	2749.4	2719.4	2697.0	2663.3	2640.9	2693.2	2719.4
55°	12183.2	8349.0	2827.9	2663.3	2659.6	2629.7	2588.5	2554.8	2543.6	2551.1	2603.5
57.5°	12108.4	8199.4	2756.8	2532.4	2524.9	2483.8	2442.6	2431.4	2427.7	2435.1	2450.1
60°	9830.3	6056.1	2461.3	2382.8	2371.5	2364.1	2322.9	2278.0	2255.6	2278.0	2259.3
62.5°	6504.9	4054.8	2169.6	2203.2	2210.7	2192.0	2124.7	2079.8	2087.3	2113.4	2072.3
65°	3194.5	2382.8	1967.6	2057.3	2064.8	2012.4	1948.9	1896.5	1870.3	1892.8	1874.0
67.5°	1825.4	1821.7	1803.0	1896.5	1892.8	1840.4	1739.4	1694.5	1649.6	1657.1	1645.9
70°	1548.6	1578.5	1615.9	1672.1	1668.3	1608.5	1488.8	1455.1	1391.5	1384.0	1365.3
72.5°	1219.4	1271.8	1354.1	1395.2	1361.6	1286.8	1208.2	1152.1	1096.0	1062.3	1073.6
75°	905.2	980.0	1024.9	1051.1	998.7	957.6	894.0	826.7	759.3	729.4	718.2
77.5°	658.3	680.8	721.9	740.6	707.0	665.8	628.4	561.1	497.5	456.4	445.1
80°	460.1	475.1	505.0	505.0	505.0	486.3	437.7	370.3	329.2	291.8	284.3
82.5°	321.7	336.7	366.6	351.6	347.9	325.4	295.5	243.1	198.3	172.1	164.6
85°	112.2	123.4	149.6	179.5	190.8	187.0	168.3	134.7	104.7	86.0	78.6
87.5°	26.2	26.2	29.9	26.2	26.2	29.9	26.2	26.2	26.2	18.7	15.0
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)