

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: P647489

Luminaire Tested: **GALN-SA6D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647489
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-SA6D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 20965.6 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

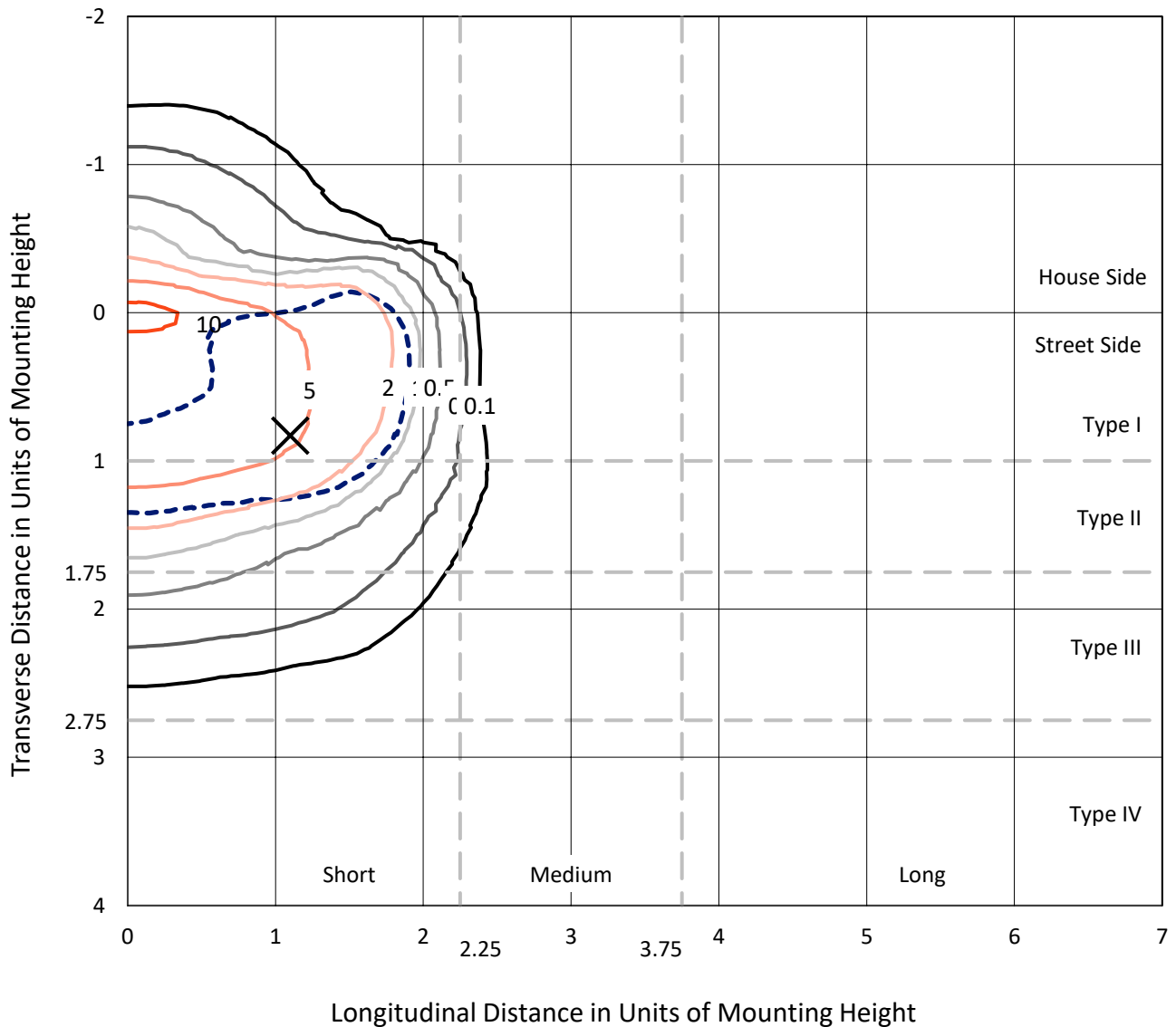
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

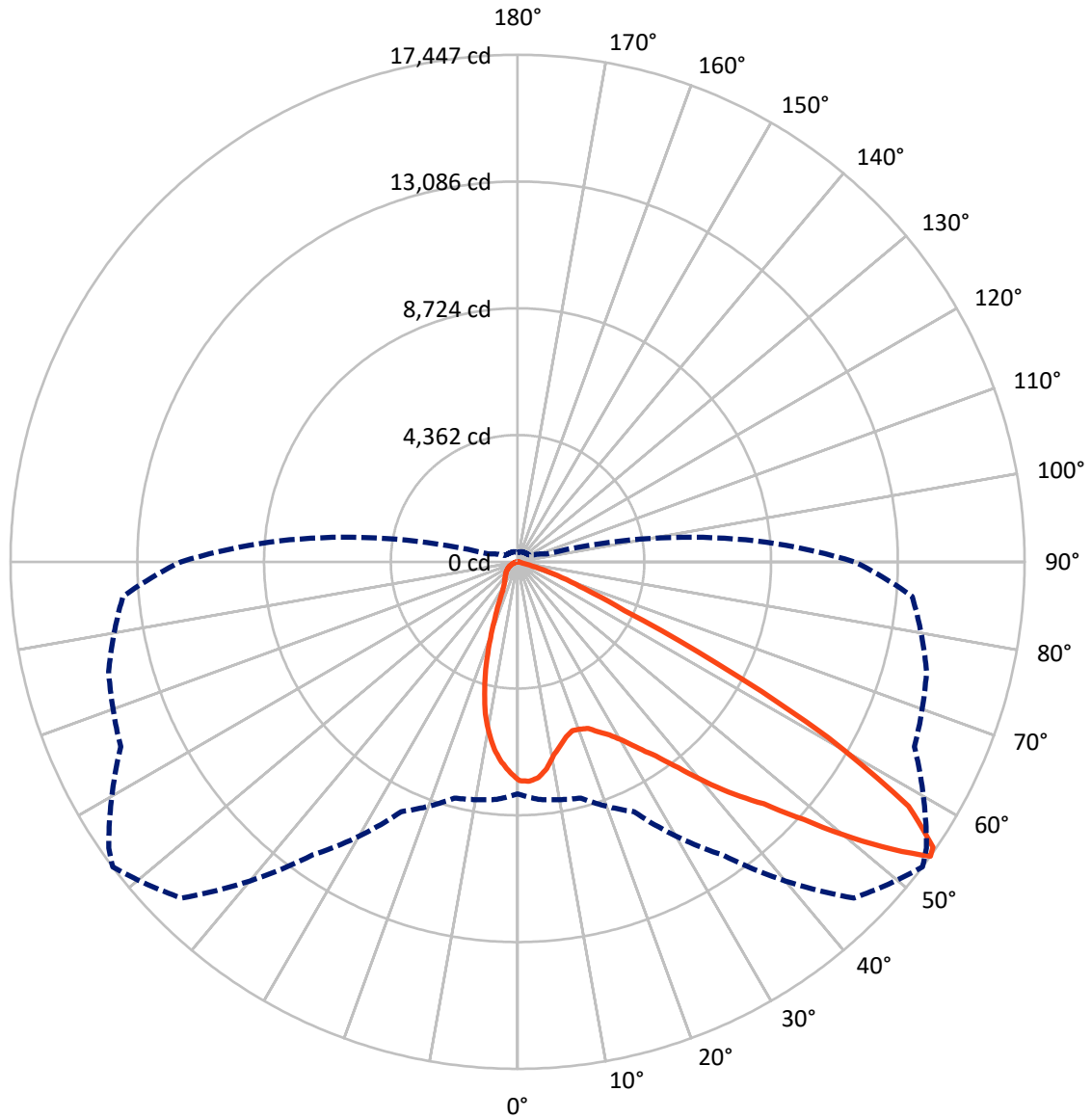
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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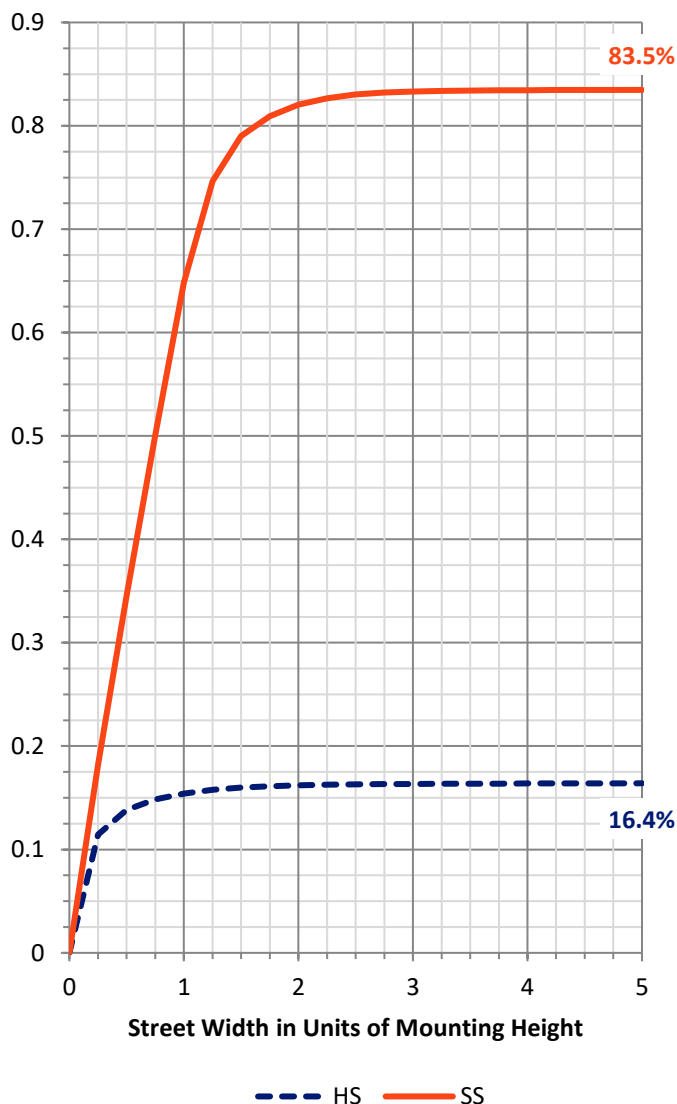
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3468.8	0.0	3468.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17496.8	0.0	17496.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	20965.6	0.0	20965.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.1	3.1
10°-20°	1481.3	7.1
20°-30°	2105.3	10.0
30°-40°	3248.9	15.5
40°-50°	5094.0	24.3
50°-60°	5917.5	28.2
60°-70°	2236.0	10.7
70°-80°	212.6	1.0
80°-90°	23.9	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°	20965.6	100.0
0°-180°	20965.6	100.0

Coefficient of Utilization



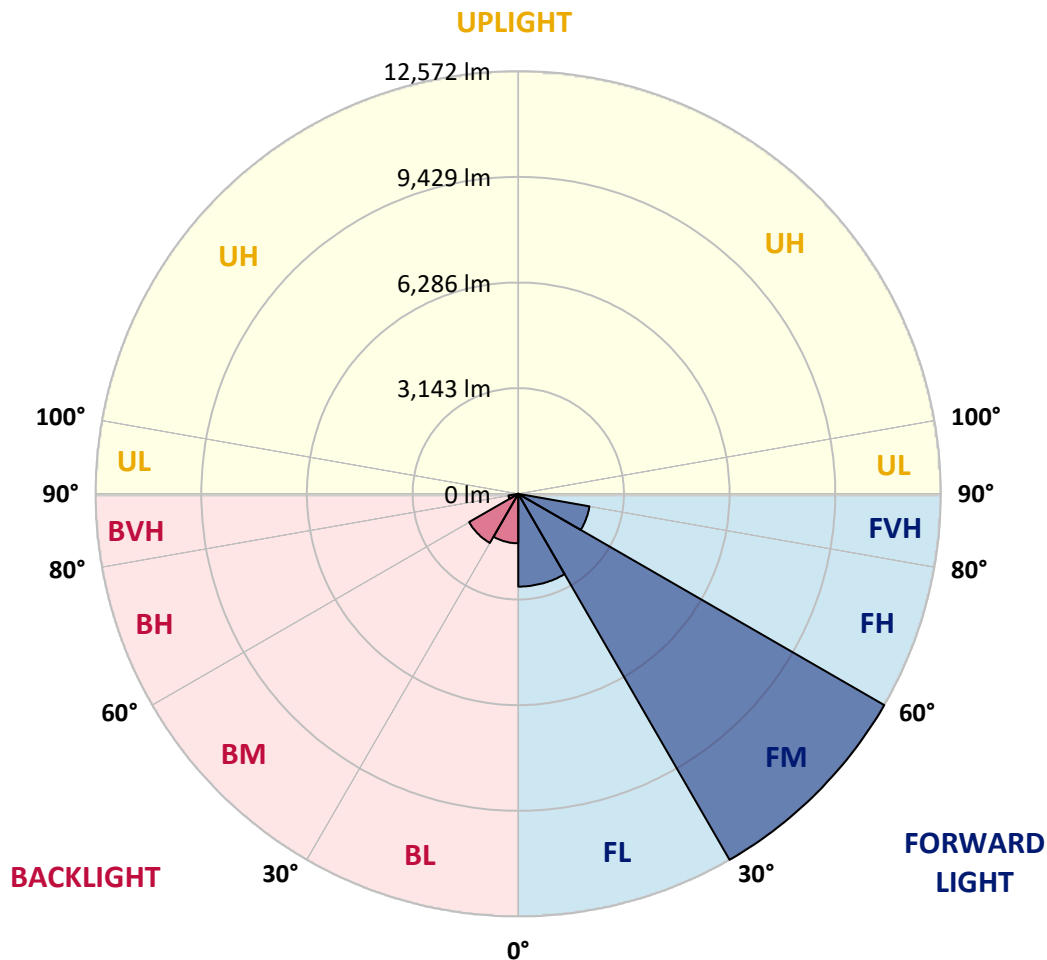
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.6	13.2			
FM (30°-60°)	12572.4	60.0			
FH (60°-80°)	2151.4	10.3			G2/5000
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1472.0	7.0	B3/2500		
BM (30°-60°)	1688.0	8.1	B2/2500		
BH (60°-80°)	297.2	1.4	B1/500		G1/500
BVH (80°-90°)	11.6	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°	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5
2.5°	7491.4	7425.0	7491.4	7499.3	7546.1	7589.1	7561.7	7624.2	7589.1	7550.0	7538.3
5°	6886.0	6975.8	6979.7	7120.4	7089.1	7346.9	7460.2	7428.9	7620.3	7608.6	7581.2
7.5°	6343.1	6307.9	6354.8	6518.9	6725.9	7022.7	7186.8	7182.9	7456.3	7651.6	7632.1
10°	5839.2	5835.4	5933.0	6061.9	6237.7	6550.1	6776.6	6889.9	7315.6	7612.5	7655.5
12.5°	5499.5	5483.8	5589.3	5694.8	5972.0	6214.2	6503.3	6557.9	7046.1	7475.8	7546.1
15°	5276.8	5312.0	5319.8	5522.9	5698.7	6018.9	6245.4	6358.7	6921.2	7366.5	7636.0
17.5°	5237.7	5284.6	5288.5	5456.5	5643.9	5913.5	6112.6	6265.0	6815.7	7421.1	7639.9
20°	5315.9	5288.5	5312.0	5417.4	5601.0	5858.8	6147.8	6198.6	6780.5	7448.4	7682.8
22.5°	5538.5	5530.7	5472.1	5558.0	5686.9	5956.4	6229.9	6307.9	6882.1	7589.1	7718.0
25°	5784.6	5827.6	5772.8	5761.2	5851.0	6116.6	6479.8	6581.3	7221.9	7843.0	7827.3
27.5°	6245.4	6202.5	6202.5	6147.8	6124.4	6253.3	6749.3	6917.3	7600.8	8171.1	7952.3
30°	6686.8	6733.7	6698.6	6718.1	6561.9	6550.1	7132.1	7339.1	8272.6	8671.0	8217.9
32.5°	7386.0	7323.5	7382.0	7331.3	7124.3	6913.3	7651.6	7866.4	9085.0	9245.2	8616.3
35°	7968.0	7940.6	8190.6	8182.7	7846.8	7639.9	8202.3	8522.6	9651.3	9932.6	9085.0
37.5°	8796.0	8745.2	9030.3	9167.1	8866.3	8557.7	8991.3	9362.3	10178.7	10483.4	9565.4
40°	9647.5	9776.4	10159.1	10385.7	10065.4	9655.3	9956.0	10069.3	10530.2	10842.7	9893.5
42.5°	10725.5	10913.0	11303.5	11498.8	11471.5	11026.2	10936.4	10932.5	10784.1	10741.1	10135.7
45°	11760.5	11690.3	12291.8	12717.5	13061.2	12932.3	11881.6	11764.4	11186.4	10893.4	10198.2
47.5°	12213.6	12190.2	12600.3	13358.1	14529.8	14689.9	13256.5	12803.4	11866.0	11534.0	10538.0
50°	11627.7	11748.8	12155.1	12994.8	14791.5	16014.0	14943.8	14334.5	12658.9	12315.2	11342.6
52.5°	9713.9	9795.9	10182.6	11248.9	13900.9	16795.2	16560.8	16209.3	14115.8	13545.5	12744.8
54°	7987.5	8206.2	8417.1	9487.3	12315.2	16361.6	17447.4	17177.9	15064.9	14568.8	13627.6
55°	6956.3	7085.2	7237.6	8303.9	11217.6	15627.3	17345.9	17369.4	15701.6	14889.1	14221.2
57.5°	5081.5	5171.3	5015.1	5487.7	7702.4	12690.2	15865.6	16498.4	16560.8	15369.6	14584.5
60°	3882.4	3921.5	3745.7	3819.9	4788.6	8710.1	12272.2	13033.8	14939.9	13432.2	12354.3
62.5°	3011.4	3019.2	3015.3	3144.2	3300.4	5124.5	7675.0	8350.7	10299.7	9538.1	8389.8
65°	2218.6	2183.4	2245.9	2636.4	2816.1	3222.4	4042.6	4534.7	5597.1	4726.1	3378.6
67.5°	1437.4	1449.1	1511.6	1960.7	2413.8	2472.4	2488.1	2449.0	2452.9	1351.5	847.6
70°	863.2	882.8	863.2	1109.3	1726.4	1773.3	1621.0	1581.9	1234.2	320.2	316.4
72.5°	511.7	484.4	433.5	476.5	718.7	859.3	773.4	769.5	484.4	187.5	187.5
75°	214.9	195.3	160.1	144.5	191.4	183.6	183.6	164.0	128.9	125.0	117.1
77.5°	43.0	43.0	31.2	35.2	46.9	54.7	66.4	66.4	78.1	78.1	74.2
80°	0.0	3.9	11.7	23.4	35.2	50.7	58.6	58.6	66.4	66.4	54.7
82.5°	0.0	3.9	11.7	23.4	31.2	46.9	58.6	58.6	66.4	70.3	58.6
85°	0.0	3.9	11.7	19.5	31.2	39.1	39.1	35.2	27.3	23.4	15.7
87.5°	0.0	0.0	3.9	7.8	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5
2.5°	7565.7	7561.7	7468.0	7315.6	7280.5	7151.6	7136.0	7057.9	7100.9	6956.3	6940.7
5°	7503.2	7456.3	7343.0	7245.3	6960.2	6757.1	6597.0	6401.7	6288.4	6307.9	6233.8
7.5°	7593.0	7471.9	7272.7	6932.9	6585.3	6229.9	6038.4	5640.0	5495.6	5280.7	5249.5
10°	7499.3	7409.4	7100.9	6538.4	6058.0	5546.3	5097.2	4655.8	4319.9	4175.3	4144.1
12.5°	7491.4	7335.2	6819.6	6194.7	5499.5	4765.2	4112.9	3562.2	3230.1	3042.7	2999.7
15°	7370.4	7182.9	6503.3	5663.5	4702.6	3788.7	3077.8	2546.6	2292.7	2183.4	2214.6
17.5°	7382.0	7100.9	6186.9	5101.1	3917.6	2781.0	2101.3	1827.9	1761.5	1788.9	1788.9
20°	7370.4	6917.3	5804.1	4452.7	2999.7	1929.5	1542.8	1445.2	1488.2	1574.1	1554.6
22.5°	7307.9	6831.4	5452.6	3769.1	2206.8	1429.5	1238.2	1242.1	1308.5	1413.9	1437.4
25°	7354.7	6639.9	5007.3	3077.8	1609.2	1140.5	1074.1	1101.4	1171.8	1249.9	1265.5
27.5°	7319.6	6503.3	4542.5	2390.4	1175.7	980.4	976.5	1007.7	1039.0	1097.5	1097.5
30°	7358.6	6378.2	4085.5	1777.2	968.6	898.3	882.8	906.2	937.4	949.2	945.2
32.5°	7503.2	6284.5	3558.3	1328.0	855.3	820.2	820.2	820.2	816.4	831.9	835.9
35°	7819.5	6300.2	3093.5	1027.2	781.2	753.8	742.1	726.5	718.7	726.5	730.4
37.5°	8163.2	6292.3	2613.0	874.9	726.5	703.1	675.7	652.3	648.4	656.2	644.5
40°	8315.5	6366.6	2167.7	785.1	675.7	648.4	605.4	585.8	589.8	597.6	589.8
42.5°	8522.6	6390.0	1878.7	714.8	628.8	585.8	558.5	535.1	531.2	542.9	539.0
45°	8518.6	6257.2	1574.1	675.7	585.8	539.0	503.9	484.4	484.4	492.1	496.0
47.5°	8768.7	6237.7	1351.5	640.6	554.6	507.8	464.8	449.2	445.3	445.3	437.5
50°	9350.6	6511.0	1179.6	601.5	515.6	472.6	437.5	418.0	402.3	394.5	390.6
52.5°	10487.2	7362.5	1046.8	554.6	472.6	437.5	406.2	390.6	371.1	351.5	347.7
54°	11588.7	8241.4	1039.0	515.6	437.5	414.1	386.6	378.9	355.4	328.1	320.2
55°	12084.7	8753.0	1066.3	484.4	414.1	398.4	375.0	367.1	343.7	312.5	308.6
57.5°	12494.8	8952.2	1050.7	402.3	375.0	371.1	351.5	339.8	312.5	269.5	261.7
60°	10057.6	6768.9	753.8	355.4	343.7	335.9	320.2	312.5	277.3	230.4	226.5
62.5°	6354.8	3894.2	480.4	312.5	300.8	289.0	269.5	261.7	230.4	183.6	171.9
65°	2706.8	1613.1	324.2	277.3	257.8	238.3	222.6	210.9	183.6	136.7	132.8
67.5°	703.1	574.2	269.5	242.2	214.9	187.5	175.8	156.2	125.0	93.7	89.8
70°	316.4	289.0	226.5	203.1	171.9	144.5	128.9	109.4	82.1	62.5	58.6
72.5°	187.5	183.6	171.9	152.3	128.9	109.4	93.7	74.2	54.7	35.2	35.2
75°	117.1	113.3	117.1	105.5	89.8	82.1	70.3	50.7	31.2	15.7	15.7
77.5°	70.3	70.3	70.3	66.4	62.5	62.5	50.7	31.2	15.7	3.9	3.9
80°	54.7	54.7	58.6	54.7	54.7	54.7	43.0	23.4	7.8	0.0	0.0
82.5°	54.7	58.6	66.4	62.5	54.7	46.9	39.1	23.4	7.8	0.0	0.0
85°	15.7	11.7	19.5	27.3	39.1	35.2	27.3	19.5	7.8	0.0	0.0
87.5°	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9	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)