

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: P532419

Luminaire Tested: **GALN-SA7D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29353 lumens
Efficiency: N/A
Efficacy: 67.8 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

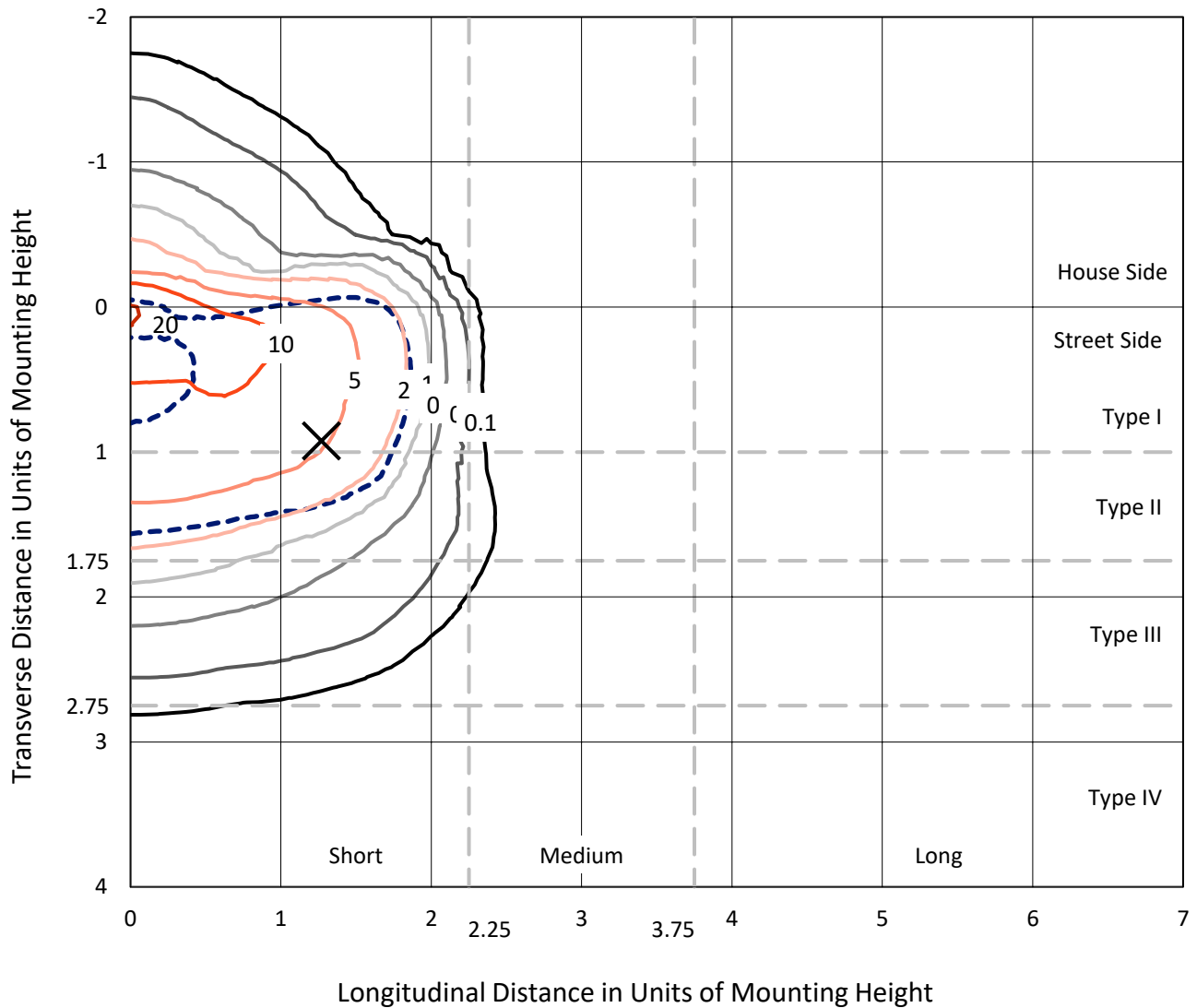
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

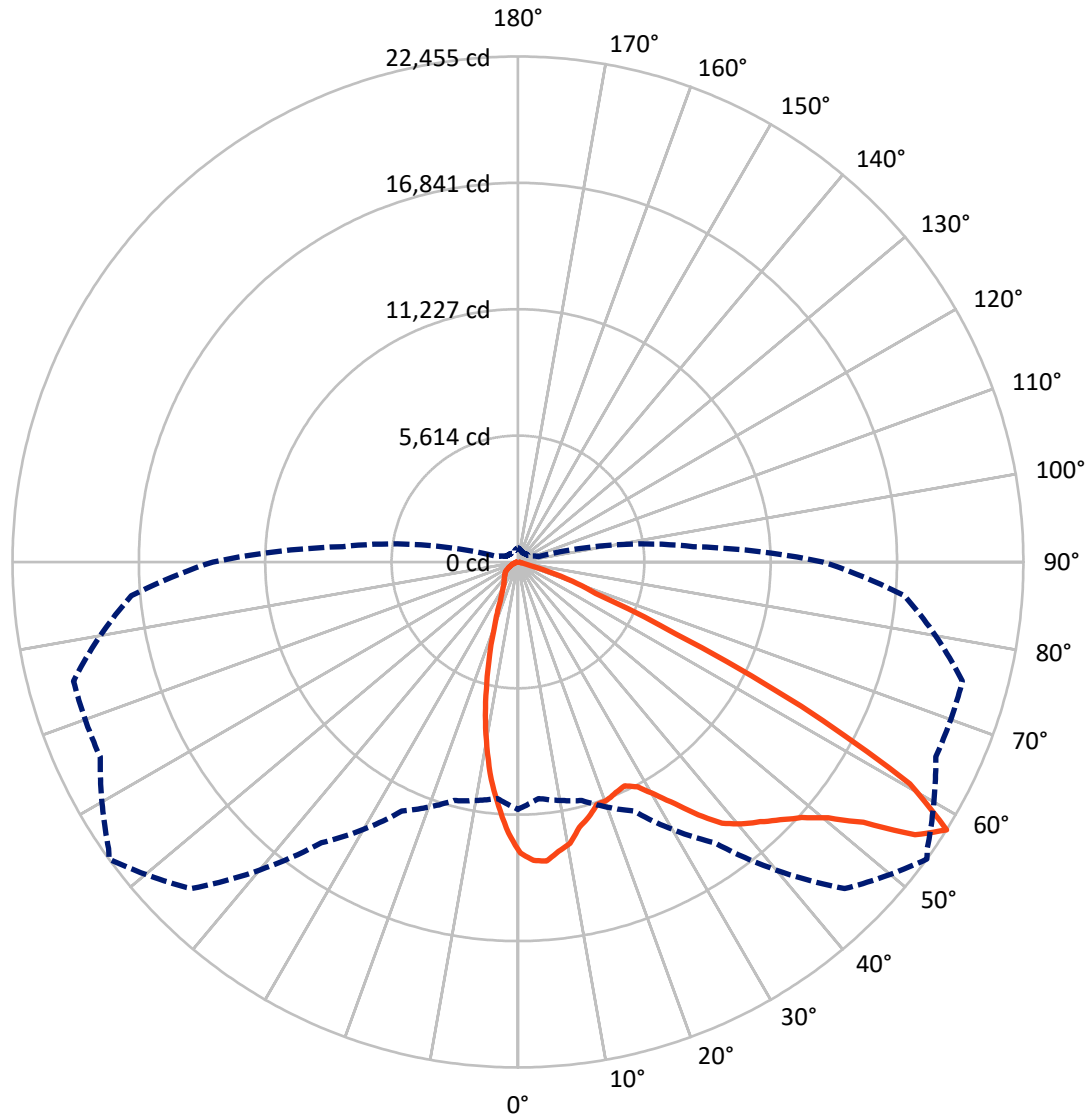
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 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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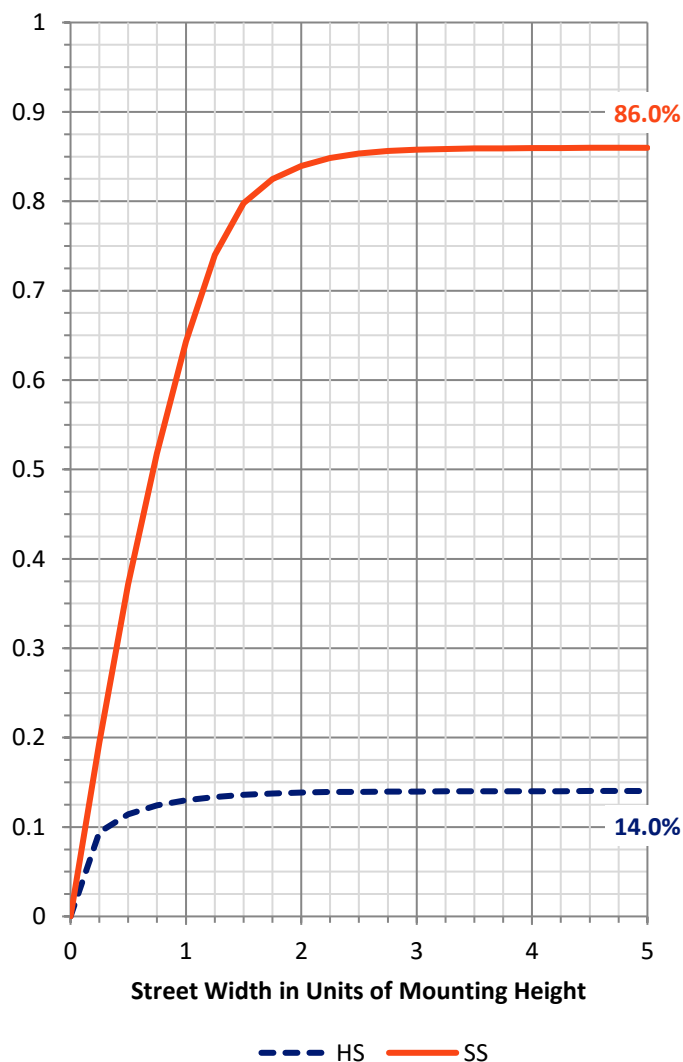
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4148.1	0.0	4148.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25204.9	0.0	25204.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	29353.0	0.0	29353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1082.0	3.7
10°-20°	2310.1	7.9
20°-30°	3061.4	10.4
30°-40°	4449.1	15.2
40°-50°	6597.4	22.5
50°-60°	8249.7	28.1
60°-70°	3254.1	11.1
70°-80°	324.0	1.1
80°-90°	25.2	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°	29353.0	100.0
0°-180°	29353.0	100.0

Coefficient of Utilization

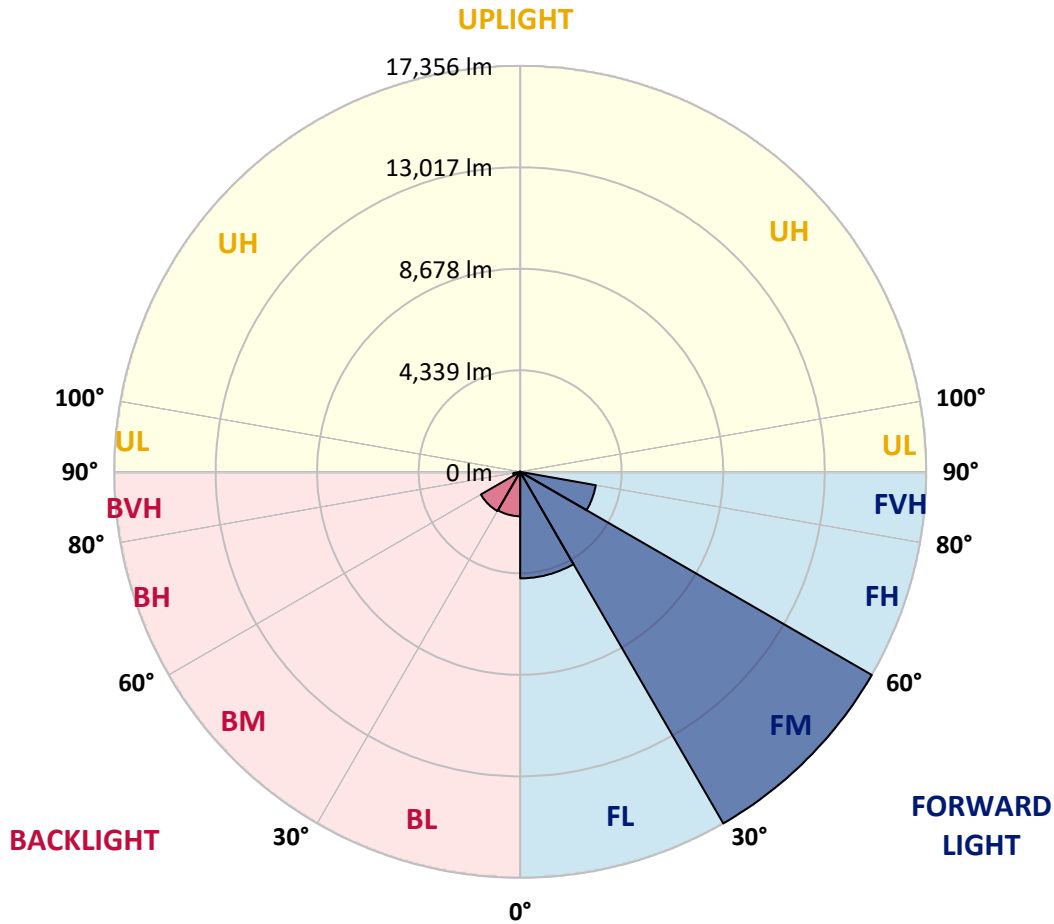


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4556.4	15.5			
FM (30°-60°)	17356.4	59.1			
FH (60°-80°)	3280.7	11.2			G2/5000
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	1897.1	6.5	B3/2500		
BM (30°-60°)	1939.7	6.6	B2/2500		
BH (60°-80°)	297.4	1.0	B1/500		G1/500
BVH (80°-90°)	13.8	0.0			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°	54°	55°	65°	75°	85°
0°	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4
2.5°	13683.6	13541.7	13552.6	13503.5	13438.0	13487.1	13274.3	13323.4	13317.9	13028.6	12837.6
5°	13339.8	13492.6	13334.3	13465.3	13339.8	13476.2	13345.2	13247.0	13088.7	12875.8	12521.0
7.5°	12755.7	12608.4	12652.0	12815.8	12843.1	13148.7	12985.0	13110.5	13045.0	12624.7	12139.0
10°	11582.2	11549.5	11767.8	11986.1	12253.6	12581.1	12706.6	12635.7	12586.5	12428.2	11778.7
12.5°	10681.6	10774.4	10769.0	11129.2	11582.2	11767.8	12095.3	12084.4	12357.3	12062.5	11440.3
15°	9824.7	9873.8	10103.1	10326.8	10829.0	11358.4	11762.3	11816.9	12144.4	11937.0	11178.3
17.5°	9300.7	9229.8	9409.9	9677.3	10190.4	10883.6	11331.1	11462.1	11909.7	11866.0	10878.1
20°	8782.2	8782.2	8929.6	9246.1	9715.5	10496.1	11292.9	11254.7	11909.7	11784.2	10556.1
22.5°	8607.5	8694.9	8733.1	8973.2	9530.0	10201.3	11129.2	11200.2	12002.5	11746.0	10414.2
25°	8847.7	8733.1	8744.0	8935.0	9459.0	10059.4	11009.1	11167.4	12171.7	11937.0	10299.6
27.5°	8885.9	9000.5	9033.3	9164.3	9513.6	10103.1	11309.3	11631.3	12592.0	12384.6	10332.3
30°	9218.8	9333.5	9328.0	9551.8	9791.9	10457.8	11980.7	12046.2	13459.8	12946.8	10534.3
32.5°	9622.7	9742.8	9781.0	10043.0	10234.1	11107.4	12799.4	12968.6	14294.9	13831.0	11063.7
35°	10124.9	10081.2	10255.9	10517.9	10927.2	12057.1	13798.2	14082.1	15195.5	14977.2	11609.5
37.5°	10752.6	10698.0	10867.2	11292.9	11849.7	13181.5	14720.7	14906.2	15850.5	16041.5	12619.3
40°	11194.7	11216.5	11729.6	12302.7	12892.2	14251.3	15304.7	15484.8	16309.0	17034.9	13383.4
42.5°	11931.5	12068.0	12684.8	13383.4	14000.2	15053.6	15779.6	15954.2	16521.9	17831.8	14415.0
45°	13001.3	12941.3	13623.6	14404.1	15086.4	15888.7	16341.7	16281.7	16647.4	18623.3	15064.5
47.5°	14376.8	14387.7	14840.7	15506.6	16216.2	16614.7	16969.4	16756.6	16909.4	19458.4	15932.4
50°	15315.6	15397.5	15763.2	16445.4	16800.2	17411.5	17864.6	17733.6	17684.5	19960.5	16478.2
52.5°	15555.8	15801.4	15997.9	16849.4	17679.0	18645.1	19223.7	19502.0	18628.7	20129.7	17171.4
55°	13743.7	13962.0	14655.2	15823.2	18011.9	20599.1	21396.0	21401.5	19862.3	20882.9	17657.2
57.5°	10987.3	10545.2	10970.9	12209.9	15228.3	20517.2	22454.9	22198.4	20479.0	20440.8	17236.9
60°	7597.8	7488.6	7515.9	8007.1	10539.7	16319.9	20009.6	20342.6	18858.0	17717.2	13645.4
62.5°	6020.4	5927.6	5807.5	5752.9	6544.3	10168.6	14114.8	14584.2	13186.9	11489.4	8089.0
65°	4715.9	4661.3	4677.6	4896.0	4890.5	5769.3	7717.8	7526.8	6025.8	4453.9	2543.5
67.5°	3182.1	3264.0	3329.5	3989.9	4328.3	4017.2	3727.9	3618.8	1959.5	824.2	562.2
70°	1790.3	1801.2	1872.2	2494.4	3285.8	3116.6	2570.8	2570.8	977.0	300.2	322.0
72.5°	977.0	944.3	878.8	1075.3	1462.8	1484.6	1146.2	998.8	289.3	196.5	180.1
75°	474.9	469.4	403.9	332.9	316.6	262.0	202.0	185.6	131.0	125.5	109.2
77.5°	98.2	92.8	49.1	49.1	54.6	60.0	76.4	76.4	92.8	92.8	76.4
80°	0.0	0.0	5.5	21.8	38.2	54.6	65.5	65.5	76.4	76.4	60.0
82.5°	0.0	0.0	5.5	16.4	32.7	49.1	60.0	65.5	76.4	81.9	65.5
85°	0.0	0.0	0.0	10.9	27.3	38.2	32.7	32.7	27.3	21.8	10.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4	12930.4
2.5°	12739.4	12728.4	12477.4	12335.5	12078.9	11855.1	11675.0	11544.0	11544.0	11462.1	11385.7
5°	12379.1	12286.3	11751.4	11407.6	10921.8	10561.5	10315.9	10124.9	9824.7	9906.6	9584.5
7.5°	11931.5	11696.8	10987.3	10463.3	9791.9	9278.9	8754.9	8291.0	7843.4	7641.4	7750.6
10°	11451.2	11041.9	10086.7	9257.0	8421.9	7483.1	6871.8	6129.5	5671.0	5643.7	5523.7
12.5°	10943.6	10479.7	9317.1	8170.9	7073.8	5943.9	5010.6	4317.4	4006.3	3662.4	3727.9
15°	10561.5	9873.8	8460.2	7079.2	5621.9	4481.2	3542.3	3007.4	2712.7	2630.8	2603.5
17.5°	10146.7	9409.9	7586.8	5916.7	4410.2	3225.8	2549.0	2292.4	2177.8	2177.8	2161.4
20°	9715.5	8885.9	6719.0	4835.9	3307.6	2407.1	2041.4	1959.5	1954.0	1948.6	1948.6
22.5°	9431.7	8285.5	5933.0	3842.5	2494.4	1926.7	1773.9	1741.2	1763.0	1828.5	1828.5
25°	9131.5	7706.9	5065.2	2963.8	1932.2	1653.8	1566.5	1588.3	1642.9	1702.9	1681.1
27.5°	8825.9	7330.3	4246.5	2325.2	1582.9	1446.4	1413.7	1462.8	1522.8	1577.4	1561.0
30°	8754.9	6926.4	3471.4	1763.0	1359.1	1260.8	1282.7	1326.3	1386.4	1408.2	1430.0
32.5°	8864.1	6609.8	2843.7	1446.4	1184.4	1157.1	1157.1	1179.0	1217.2	1266.3	1249.9
35°	9175.2	6429.7	2248.8	1255.4	1086.2	1058.9	1053.4	1075.3	1097.1	1113.5	1097.1
37.5°	9650.0	6287.8	1839.4	1113.5	1020.7	977.0	966.1	960.6	982.5	987.9	998.8
40°	10255.9	6364.2	1561.0	1026.1	955.2	906.1	873.3	873.3	873.3	889.7	895.1
42.5°	10910.9	6467.9	1348.2	977.0	895.1	835.1	802.4	791.4	802.4	824.2	818.7
45°	11598.6	6669.9	1211.7	900.6	840.6	764.1	720.5	709.6	736.9	780.5	775.1
47.5°	12242.7	6959.2	1108.0	851.5	786.0	715.0	660.4	649.5	698.6	758.7	764.1
50°	12886.7	7461.3	1069.8	813.3	747.8	665.9	616.8	605.9	660.4	736.9	753.2
52.5°	13629.0	8001.7	1042.5	764.1	704.1	627.7	573.1	562.2	622.2	720.5	725.9
55°	14114.8	8460.2	1020.7	676.8	622.2	567.6	524.0	518.5	584.0	671.4	693.2
57.5°	13547.2	7821.5	944.3	589.5	529.4	502.2	463.9	463.9	518.5	600.4	616.8
60°	10272.3	5147.0	671.4	474.9	447.6	431.2	414.8	414.8	458.5	518.5	524.0
62.5°	6014.9	2772.7	431.2	382.1	382.1	365.7	338.4	338.4	382.1	414.8	420.3
65°	1784.8	889.7	349.3	327.5	322.0	294.7	267.5	262.0	294.7	311.1	305.7
67.5°	513.1	409.4	289.3	272.9	267.5	223.8	207.4	202.0	207.4	196.5	191.0
70°	305.7	278.4	223.8	229.2	202.0	163.7	147.4	141.9	131.0	114.6	103.7
72.5°	169.2	169.2	163.7	174.7	141.9	109.2	92.8	76.4	60.0	49.1	43.7
75°	103.7	109.2	114.6	120.1	92.8	71.0	60.0	38.2	21.8	10.9	10.9
77.5°	71.0	76.4	81.9	87.3	76.4	65.5	49.1	27.3	5.5	0.0	0.0
80°	54.6	60.0	71.0	76.4	81.9	87.3	65.5	27.3	5.5	0.0	0.0
82.5°	60.0	65.5	81.9	76.4	76.4	76.4	60.0	27.3	5.5	0.0	0.0
85°	10.9	16.4	27.3	27.3	38.2	49.1	38.2	10.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)