

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: P383250

Luminaire Tested: **GLEON-SA5D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30862.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

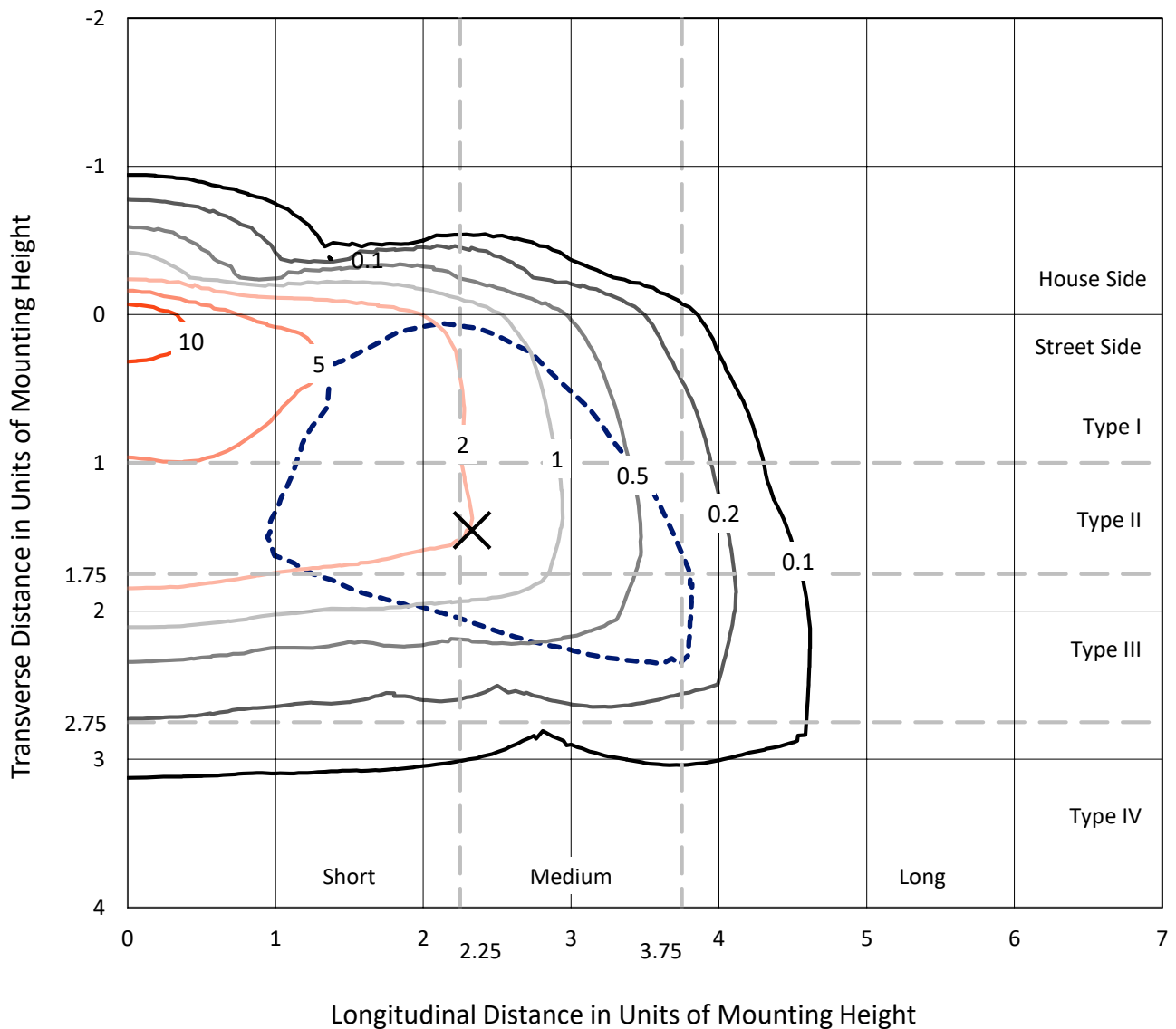




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Iso-Footcandle Lines of Horizontal Illumination

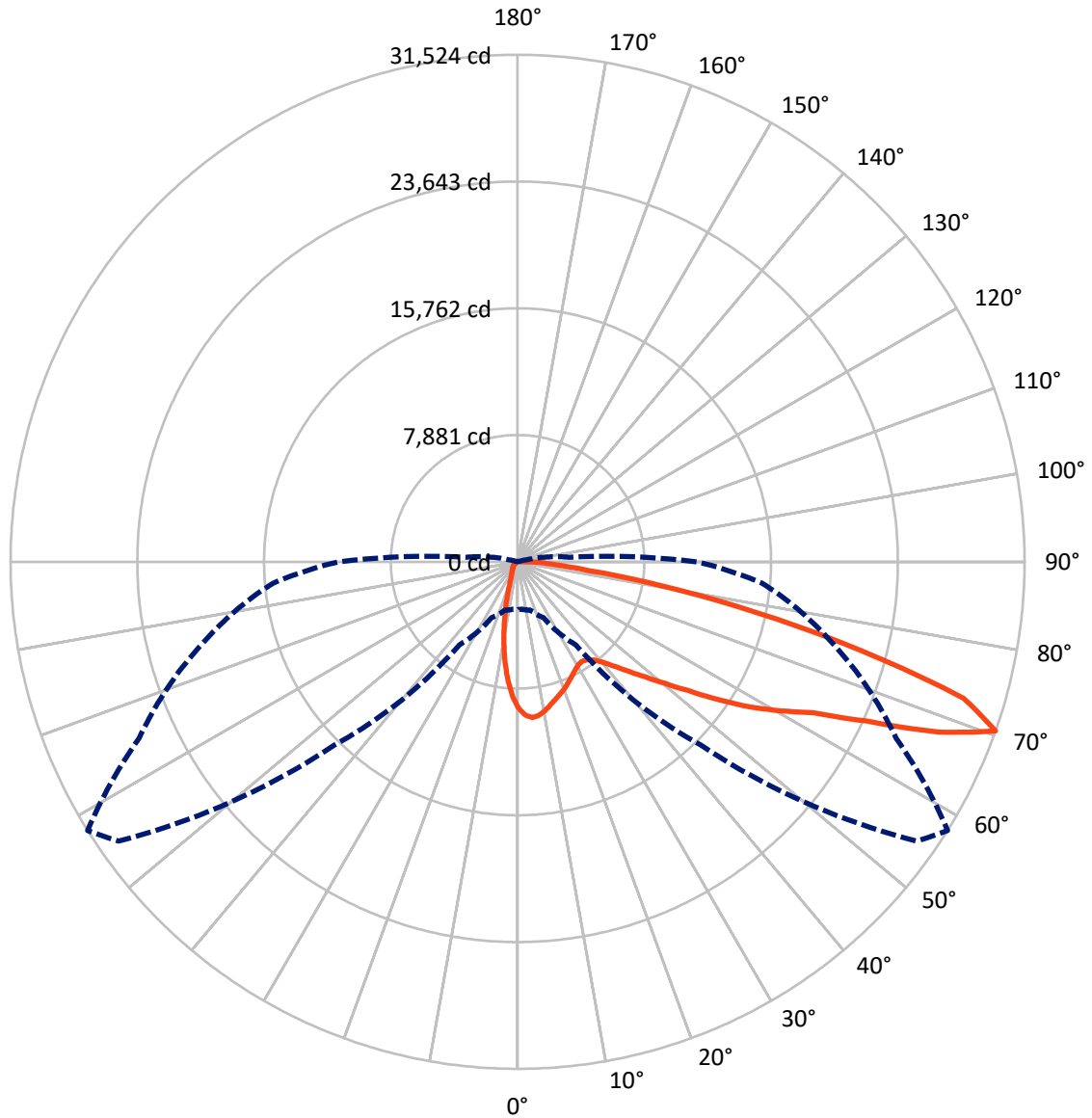
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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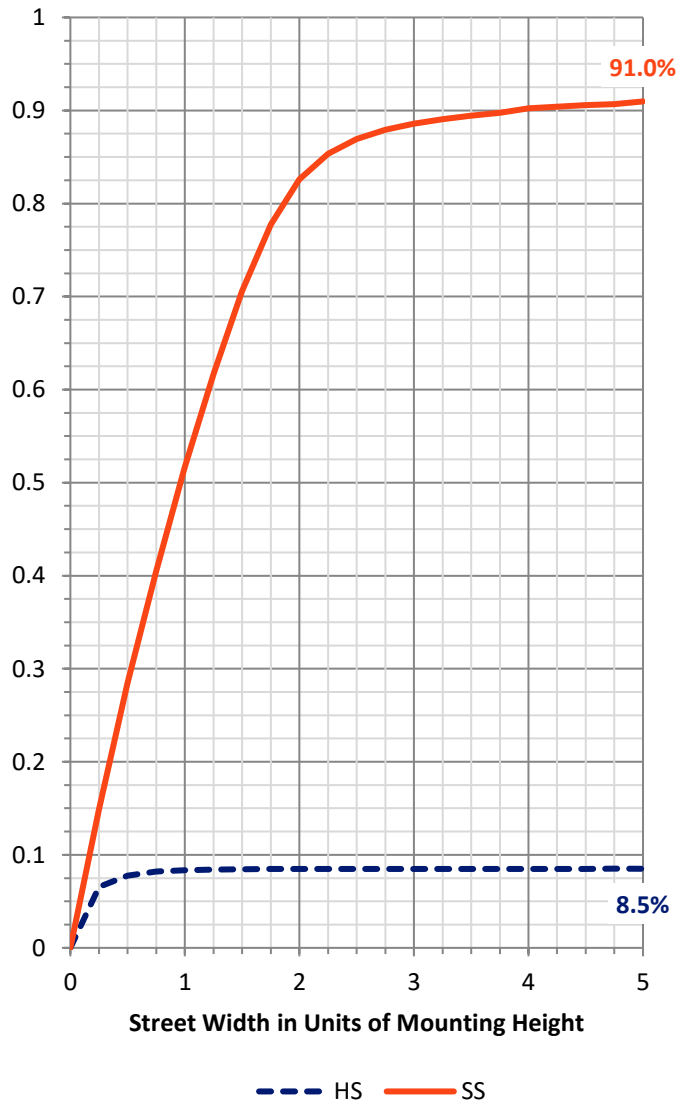
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2641.1	0.0	2641.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	28221.0	0.0	28221.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	30862.2	0.0	30862.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.5	2.4
10°-20°	1564.6	5.1
20°-30°	2056.9	6.7
30°-40°	2724.2	8.8
40°-50°	4071.8	13.2
50°-60°	6522.9	21.1
60°-70°	8222.1	26.6
70°-80°	4435.0	14.4
80°-90°	519.1	1.7
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°	30862.2	100.0
0°-180°	30862.2	100.0

Coefficient of Utilization

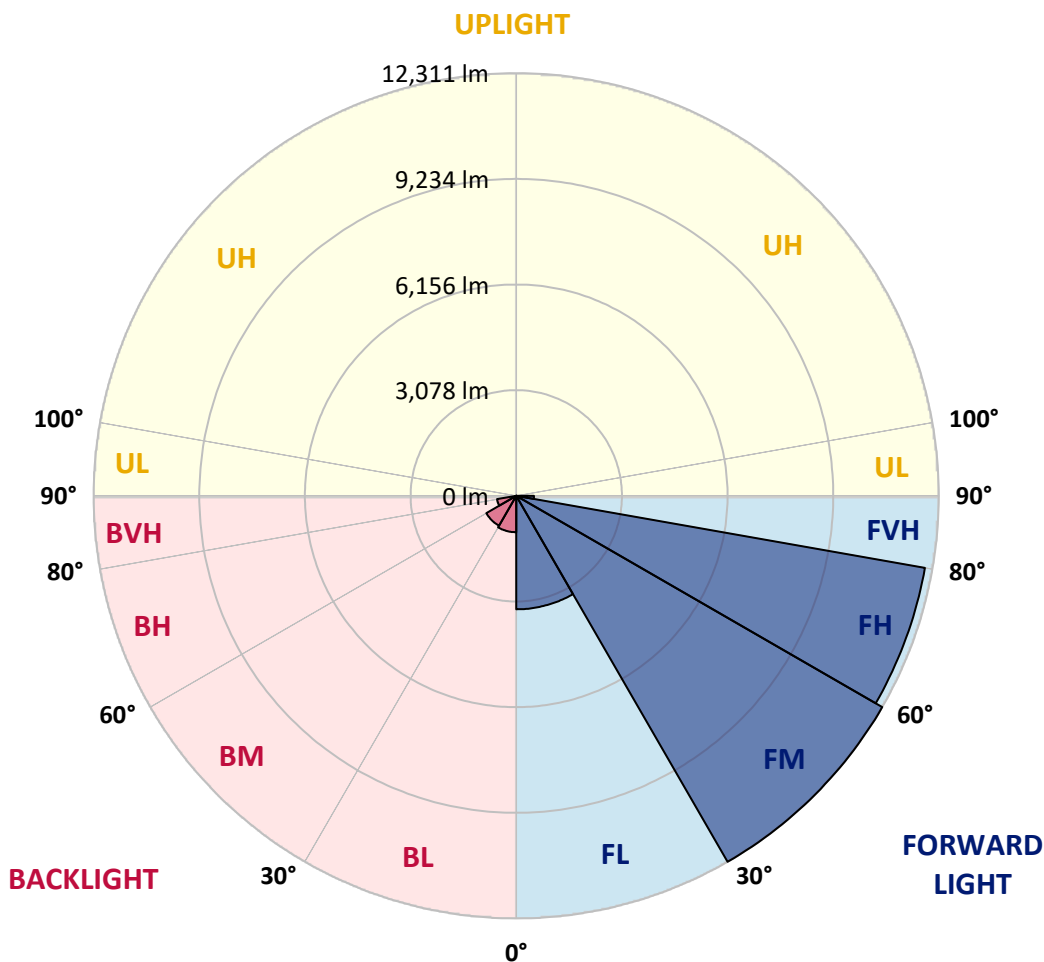


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.0	10.7			
FM (30°-60°)	12311.4	39.9			
FH (60°-80°)	12089.0	39.2			G5
FVH (80°-90°)	514.6	1.7			G4/750
BL (0°-30°)	1061.1	3.4	B3/2500		
BM (30°-60°)	1007.5	3.3	B2/2500		
BH (60°-80°)	568.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5
2.5°	9872.4	9848.0	9839.0	9823.6	9764.6	9706.8	9592.6	9560.6	9488.7	9318.0	9137.1
5°	9880.1	9878.8	9905.8	9899.4	9878.8	9851.9	9769.7	9727.4	9605.5	9361.7	9030.5
7.5°	9404.0	9428.4	9488.7	9537.5	9593.9	9667.0	9677.4	9636.3	9536.2	9273.1	8834.2
10°	8764.9	8803.4	8888.1	8984.4	9132.0	9278.2	9409.1	9404.0	9369.3	9110.2	8598.1
12.5°	8124.6	8169.5	8267.0	8409.5	8618.6	8857.3	9090.9	9122.9	9180.7	8963.8	8379.9
15°	7563.8	7602.3	7698.5	7873.1	8132.2	8453.0	8795.7	8854.7	9003.6	8849.6	8197.7
17.5°	7087.7	7112.0	7182.6	7376.4	7676.7	8065.5	8510.8	8626.3	8848.3	8759.8	8039.8
20°	6755.3	6759.1	6805.3	6941.3	7241.7	7676.7	8215.7	8381.2	8684.1	8682.8	7876.9
22.5°	6591.0	6578.2	6587.2	6665.4	6886.2	7305.8	7920.5	8116.9	8536.5	8617.4	7711.4
25°	6560.2	6550.0	6524.3	6534.5	6668.0	6981.1	7622.8	7850.0	8406.8	8577.6	7567.6
27.5°	6656.5	6666.7	6623.1	6576.9	6587.2	6770.7	7358.4	7621.5	8301.7	8577.6	7466.3
30°	6850.2	6855.4	6823.3	6762.9	6682.1	6711.6	7174.9	7437.9	8249.0	8636.6	7402.1
32.5°	7064.6	7092.8	7088.9	7040.2	6924.7	6805.3	7131.3	7371.2	8245.2	8767.4	7395.6
35°	7330.2	7362.3	7416.1	7405.9	7285.3	7088.9	7280.1	7468.8	8320.9	8983.1	7465.0
37.5°	7612.5	7661.3	7776.7	7832.0	7753.6	7531.7	7613.8	7748.5	8523.7	9332.2	7640.7
40°	7885.8	7941.1	8151.5	8368.4	8309.3	8080.9	8119.5	8227.2	8884.3	9833.9	7974.4
42.5°	8154.0	8236.2	8545.5	8902.2	8972.9	8790.5	8811.1	8897.1	9419.4	10524.3	8519.8
45°	8474.8	8567.3	9025.4	9465.6	9654.3	9574.6	9661.9	9718.4	10118.7	11436.7	9255.1
47.5°	8945.8	9052.4	9614.5	10116.2	10447.3	10498.6	10674.4	10711.7	11003.0	12499.3	10213.8
50°	9864.7	9894.2	10402.4	10857.9	11335.4	11643.3	11843.5	11871.7	12073.2	13660.7	11411.1
52.5°	11021.0	11040.2	11327.6	11633.1	12175.9	12804.8	13273.2	13312.9	13355.2	14792.6	12593.0
55°	12169.5	12166.9	12356.9	12536.5	13157.6	14071.3	15087.7	15112.1	14808.0	15866.7	13496.4
57.5°	12886.8	12956.2	13244.9	13475.9	14343.4	15515.0	16925.4	17015.3	16333.8	16662.3	14389.6
60°	12658.4	12691.8	13332.1	14186.8	15820.5	17567.0	18784.9	18808.0	17481.0	17456.6	15518.9
62.5°	10784.8	10802.8	11808.9	13570.9	16568.6	20228.6	21028.1	20652.1	18800.3	18559.0	16870.2
65°	7391.8	7508.6	8349.1	10526.9	15194.2	21898.2	24500.7	23878.3	20811.2	20147.8	18092.0
67.5°	4352.9	4328.5	4744.4	6348.5	11159.6	20789.4	28893.4	28274.9	23553.6	21211.6	17733.9
70°	2973.4	2956.7	3115.8	3843.5	6299.7	16127.2	30275.6	31524.2	25975.2	20495.5	15262.3
72.5°	2122.5	2131.6	2366.4	2986.3	3955.2	9396.3	26035.5	28991.0	25216.8	17867.4	11601.0
75°	1441.1	1465.5	1801.7	2449.8	3467.5	4780.2	18475.7	22038.1	20534.0	12985.7	6668.0
77.5°	775.1	802.1	1198.6	1973.7	3135.1	3321.2	11884.6	15167.3	12898.4	5837.7	1932.7
80°	323.4	338.8	560.8	1434.8	2709.0	2917.0	6992.7	9197.4	5496.3	1151.1	431.2
82.5°	139.9	147.6	233.5	856.0	2025.0	2462.6	3702.3	4424.9	1665.7	252.8	216.9
85°	26.9	28.2	96.2	453.0	1292.2	1389.8	2399.8	2352.3	748.1	109.1	157.8
87.5°	0.0	0.0	23.1	142.4	379.9	757.2	1464.2	1446.3	254.1	52.6	59.1
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°	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5	9116.5
2.5°	9044.7	8956.1	8770.1	8540.3	8364.6	8170.8	8016.7	7821.7	7737.0	7740.9	7694.7
5°	8841.9	8659.7	8247.7	7728.0	7327.6	6914.4	6558.9	6204.8	5995.5	5927.5	5863.3
7.5°	8551.9	8263.1	7606.1	6805.3	6127.7	5465.6	4889.3	4382.5	4061.6	3905.0	3847.3
10°	8224.6	7819.1	6868.2	5813.3	4845.7	3949.9	3203.1	2553.7	2294.5	2118.7	2073.8
12.5°	7937.2	7387.9	6147.0	4795.7	3647.1	2566.6	1854.3	1450.1	1274.4	1205.0	1193.5
15°	7666.5	6985.0	5452.7	3874.3	2525.5	1579.7	1179.3	1042.0	1000.9	989.4	989.4
17.5°	7411.0	6601.3	4773.9	2967.0	1670.8	1107.5	976.6	945.8	932.9	931.6	932.9
20°	7144.1	6217.6	4106.5	2173.9	1166.5	938.1	902.2	885.4	881.6	881.6	881.6
22.5°	6888.7	5833.9	3457.2	1552.8	935.6	856.0	838.0	826.5	822.6	821.3	818.7
25°	6643.6	5469.4	2823.2	1097.2	821.3	784.1	768.7	753.2	741.8	735.4	731.5
27.5°	6442.1	5144.8	2232.9	880.3	741.8	709.7	690.4	667.4	639.0	626.3	621.2
30°	6281.7	4848.3	1720.9	743.0	667.4	635.2	605.7	565.9	524.8	503.0	501.7
32.5°	6155.9	4556.9	1306.4	657.0	600.6	560.8	518.4	468.4	421.0	396.6	395.3
35°	6094.4	4300.3	998.4	594.1	541.5	491.5	438.9	383.7	337.5	314.4	311.9
37.5°	6135.5	4083.4	779.0	541.5	491.5	433.7	372.2	314.4	273.3	252.8	251.5
40°	6285.6	3944.8	632.7	496.6	449.2	378.6	311.9	257.9	223.3	206.6	205.3
42.5°	6605.1	3893.5	540.3	459.4	408.1	327.3	259.2	213.0	180.9	169.4	166.8
45°	7139.0	3969.2	477.4	423.5	365.7	278.4	214.3	174.6	146.3	137.3	136.0
47.5°	7850.0	4168.1	432.5	388.8	327.3	234.8	178.4	141.1	119.3	110.4	109.1
50°	8766.2	4483.8	395.3	354.2	291.3	198.9	147.6	111.7	92.4	86.0	86.0
52.5°	9763.4	4859.9	361.9	322.1	255.3	165.5	119.3	86.0	73.1	65.5	65.5
55°	10587.2	5188.3	325.9	297.7	211.7	137.3	91.1	65.5	53.9	50.0	50.0
57.5°	11409.8	5538.7	284.9	255.3	169.4	111.7	69.3	48.7	39.8	37.3	37.3
60°	12476.2	5967.3	245.1	207.9	133.5	84.7	51.3	34.7	29.5	28.2	28.2
62.5°	13649.1	6218.8	209.1	166.8	104.0	62.9	37.3	23.1	21.8	21.8	20.5
65°	14366.5	5863.3	175.8	133.5	80.9	47.5	24.4	16.7	19.3	18.0	15.4
67.5°	13451.5	4590.4	143.7	104.0	62.9	36.0	15.4	11.6	20.5	16.7	12.9
70°	11137.8	3213.4	111.7	73.1	50.0	30.8	10.2	7.7	21.8	16.7	10.2
72.5°	8335.0	2150.9	88.6	48.7	37.3	26.9	8.9	3.8	19.3	14.2	8.9
75°	4554.4	866.2	70.6	30.8	23.1	19.3	6.4	2.6	12.9	10.2	6.4
77.5°	1198.6	228.4	51.3	20.5	12.9	7.7	3.8	1.3	6.4	5.1	2.6
80°	305.5	88.6	33.3	14.2	8.9	3.8	0.0	0.0	1.3	0.0	0.0
82.5°	163.0	37.3	20.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	123.2	24.4	11.6	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	47.5	7.7	3.8	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)