

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: P383138

Luminaire Tested: **GLEON-SA4D-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383138  
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-SA4D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 24908.6 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

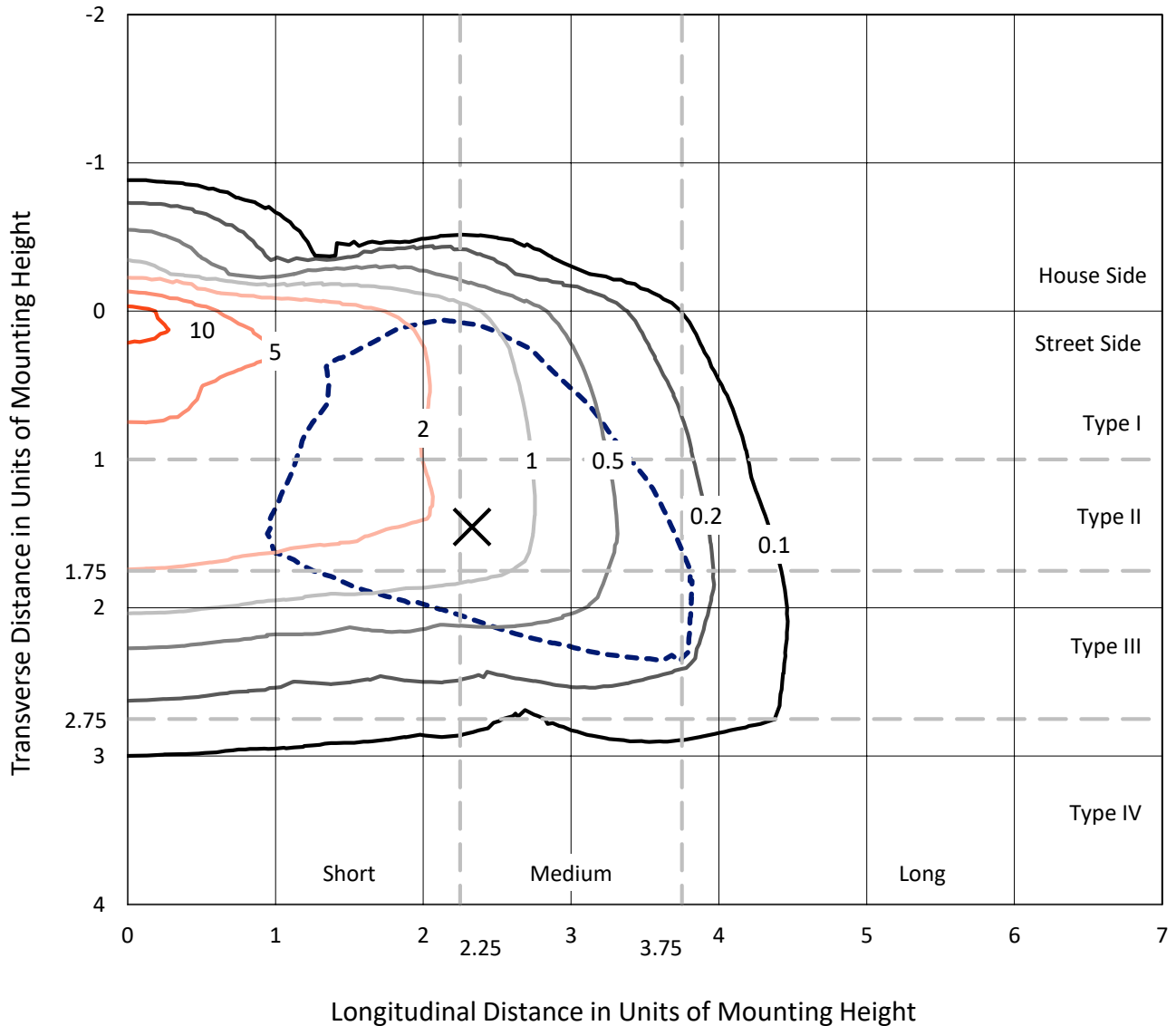
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

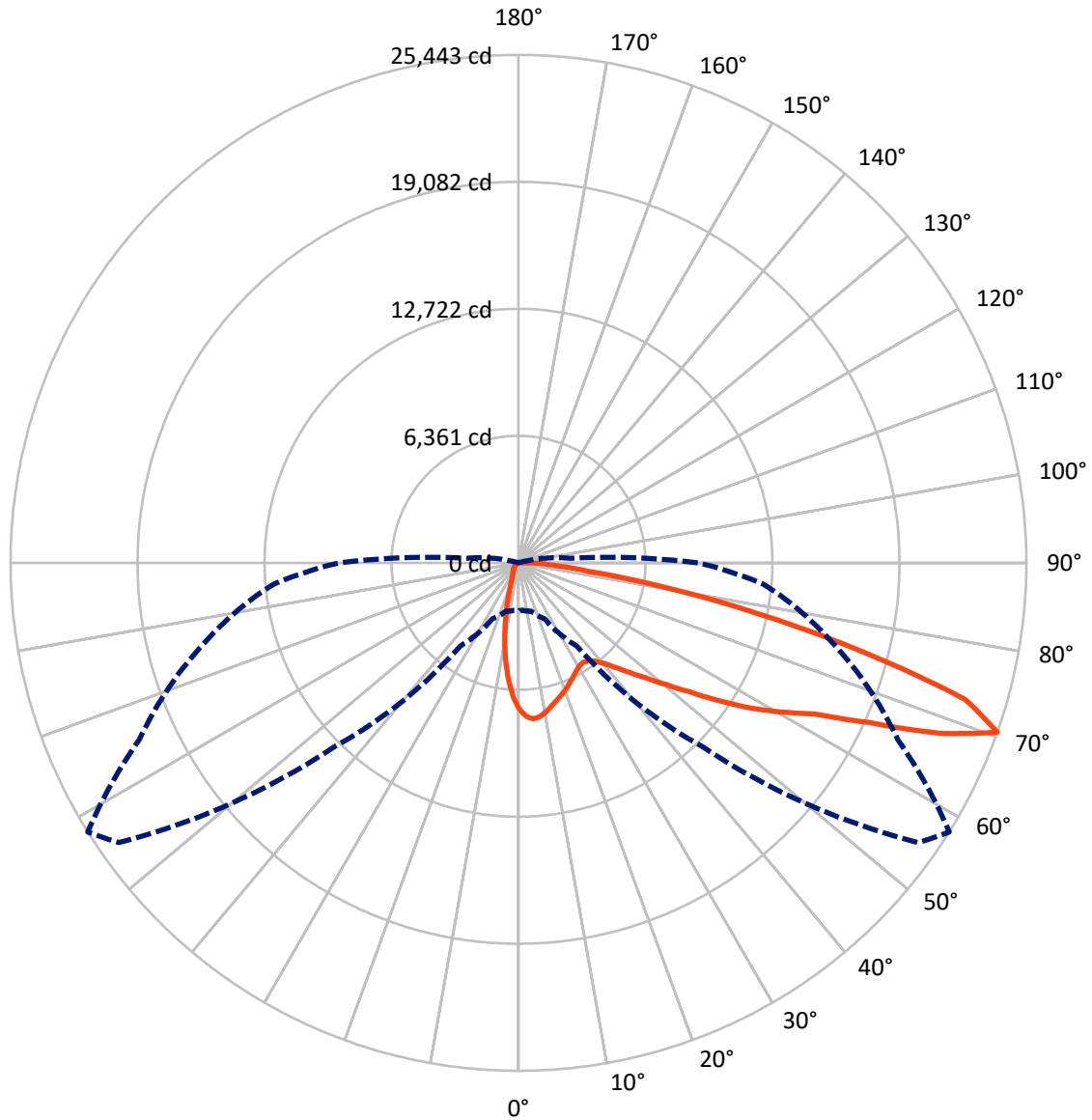
✕ Max cd  
 - - - 1/2 Max cd



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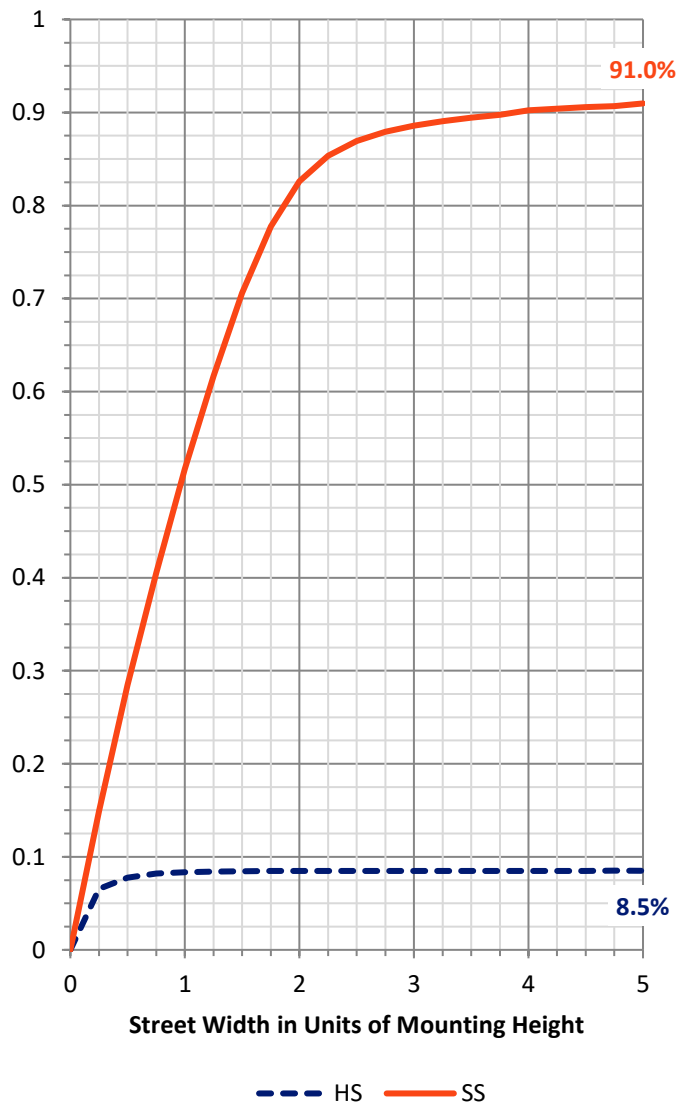
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2131.6	0.0	2131.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	22777.0	0.0	22777.0
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	24908.6	0.0	24908.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.7	2.4
10°-20°	1262.8	5.1
20°-30°	1660.1	6.7
30°-40°	2198.7	8.8
40°-50°	3286.4	13.2
50°-60°	5264.6	21.1
60°-70°	6636.0	26.6
70°-80°	3579.4	14.4
80°-90°	419.0	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°	24908.6	100.0
0°-180°	24908.6	100.0

**Coefficient of Utilization**

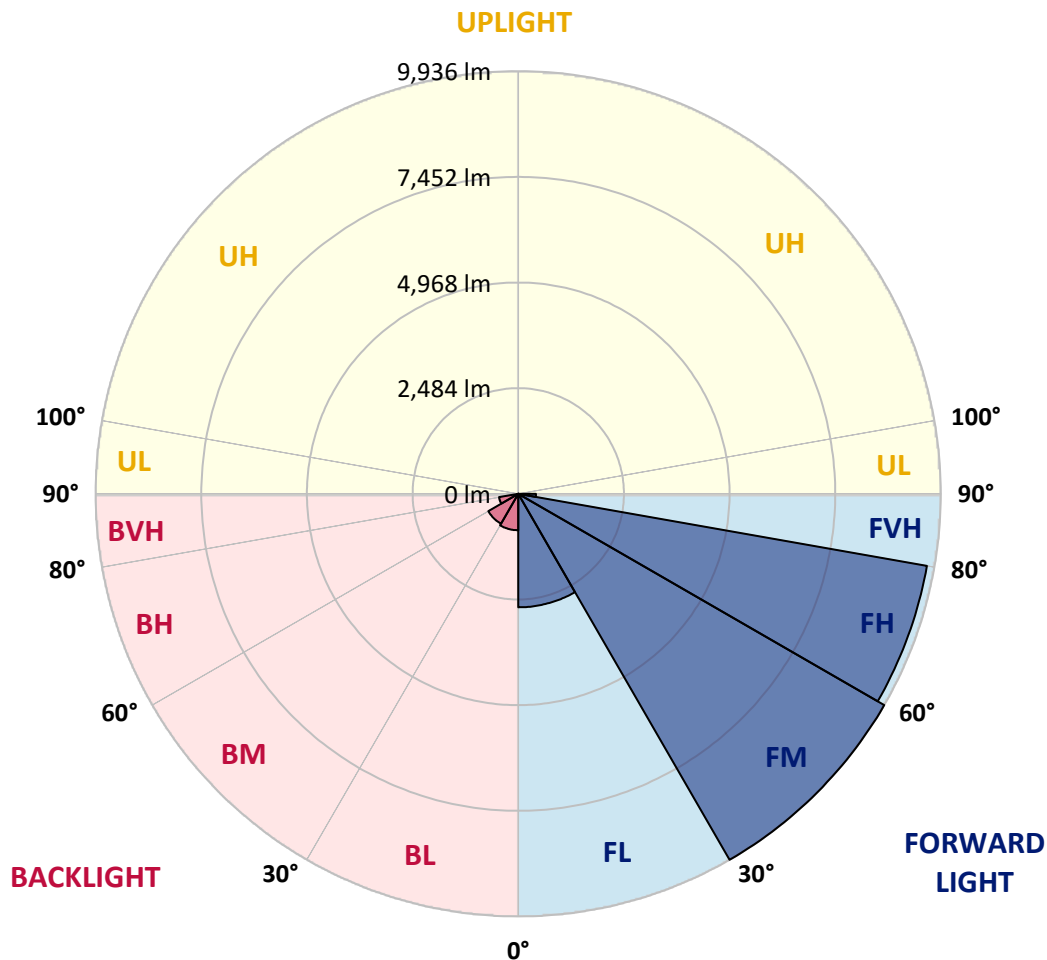


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2668.2	10.7			
FM (30°-60°)	9936.4	39.9			
FH (60°-80°)	9757.0	39.2			G4/12000
FVH (80°-90°)	415.4	1.7			G3/500
BL (0°-30°)	856.4	3.4	B2/1000		
BM (30°-60°)	813.2	3.3	B1/1000		
BH (60°-80°)	458.4	1.8	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9
2.5°	7968.0	7948.2	7941.0	7928.6	7881.0	7834.3	7742.2	7716.3	7658.3	7520.5	7374.5
5°	7974.1	7973.1	7994.9	7989.7	7973.1	7951.4	7885.1	7850.9	7752.5	7555.7	7288.5
7.5°	7589.9	7609.6	7658.3	7697.7	7743.2	7802.3	7810.6	7777.4	7696.5	7484.2	7130.1
10°	7074.1	7105.2	7173.6	7251.3	7370.3	7488.4	7594.1	7589.9	7561.9	7352.7	6939.5
12.5°	6557.3	6593.5	6672.2	6787.2	6956.1	7148.7	7337.1	7363.0	7409.7	7234.7	6763.4
15°	6104.6	6135.7	6213.4	6354.3	6563.5	6822.4	7099.0	7146.6	7266.7	7142.5	6616.3
17.5°	5720.4	5740.1	5797.0	5953.4	6195.8	6509.7	6869.0	6962.2	7141.4	7070.0	6488.9
20°	5452.2	5455.2	5492.5	5602.3	5844.7	6195.8	6630.8	6764.4	7008.9	7007.8	6357.3
22.5°	5319.6	5309.2	5316.4	5379.6	5557.8	5896.5	6392.6	6551.0	6889.7	6955.0	6223.8
25°	5294.7	5286.4	5265.7	5274.0	5381.7	5634.5	6152.3	6335.6	6785.1	6922.9	6107.8
27.5°	5372.4	5380.7	5345.5	5308.1	5316.4	5464.6	5938.9	6151.3	6700.2	6922.9	6025.9
30°	5528.7	5532.9	5507.0	5458.3	5393.1	5416.9	5790.8	6003.2	6657.8	6970.5	5974.1
32.5°	5701.7	5724.5	5721.5	5682.1	5588.8	5492.5	5755.6	5949.3	6654.6	7076.2	5969.0
35°	5916.2	5942.1	5985.6	5977.3	5879.9	5721.5	5875.7	6028.0	6715.7	7250.1	6024.9
37.5°	6144.0	6183.3	6276.6	6321.1	6258.0	6078.7	6145.0	6253.8	6879.4	7531.9	6166.8
40°	6364.6	6409.1	6579.1	6754.1	6706.4	6522.0	6553.2	6640.2	7170.4	7936.9	6436.1
42.5°	6581.1	6647.3	6897.0	7184.9	7241.9	7094.9	7111.4	7180.7	7602.4	8494.1	6876.3
45°	6840.0	6914.6	7284.3	7639.6	7791.8	7727.7	7798.1	7843.6	8166.8	9230.5	7469.8
47.5°	7220.1	7306.1	7759.8	8164.7	8432.0	8473.4	8615.3	8645.3	8880.4	10088.1	8243.5
50°	7961.8	7985.6	8395.7	8763.4	9148.7	9397.3	9558.9	9581.6	9744.3	11025.4	9209.8
52.5°	8895.0	8910.4	9142.5	9389.0	9827.1	10334.6	10712.7	10744.7	10778.9	11939.0	10163.7
55°	9822.0	9819.8	9973.1	10118.2	10619.5	11356.9	12177.2	12196.8	11951.4	12805.9	10892.9
57.5°	10400.9	10456.8	10689.9	10876.3	11576.4	12522.1	13660.4	13732.9	13182.9	13448.0	11613.8
60°	10216.6	10243.5	10760.3	11450.1	12768.6	14178.2	15161.1	15179.8	14108.8	14089.2	12525.2
62.5°	8704.4	8718.8	9530.8	10953.0	13372.5	16326.4	16971.7	16668.2	15173.6	14978.9	13615.9
65°	5965.8	6060.1	6738.5	8496.2	12263.2	17673.9	19774.3	19272.0	16796.6	16261.1	14601.8
67.5°	3513.2	3493.6	3829.1	5123.8	9006.8	16779.0	23319.7	22820.5	19010.0	17119.7	14312.9
70°	2399.9	2386.3	2514.8	3102.1	5084.5	13016.1	24435.1	25443.0	20964.4	16541.8	12318.0
72.5°	1713.1	1720.4	1909.9	2410.2	3192.1	7583.7	21013.1	23398.4	20352.3	14420.6	9363.1
75°	1163.1	1182.8	1454.1	1977.2	2798.6	3858.1	14911.6	17786.8	16572.9	10480.7	5381.7
77.5°	625.6	647.3	967.4	1592.9	2530.3	2680.5	9592.0	12241.4	10410.2	4711.6	1559.8
80°	261.0	273.4	452.6	1157.9	2186.4	2354.2	5643.8	7423.1	4436.0	929.0	348.0
82.5°	112.9	119.1	188.5	690.8	1634.4	1987.5	2988.1	3571.3	1344.4	204.0	175.0
85°	21.7	22.8	77.7	365.6	1043.0	1121.7	1936.9	1898.5	603.8	88.0	127.4
87.5°	0.0	0.0	18.6	115.0	306.6	611.1	1181.8	1167.3	205.0	42.5	47.6
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°	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9	7357.9
2.5°	7299.9	7228.4	7078.3	6892.9	6750.9	6594.5	6470.3	6312.8	6244.4	6247.6	6210.3
5°	7136.2	6989.2	6656.7	6237.3	5914.1	5580.5	5293.7	5007.8	4839.0	4784.1	4732.3
7.5°	6902.2	6669.1	6138.8	5492.5	4945.7	4411.3	3946.1	3537.1	3278.1	3151.8	3105.1
10°	6638.0	6310.8	5543.3	4691.9	3910.9	3188.0	2585.2	2061.1	1851.9	1710.0	1673.7
12.5°	6406.1	5962.7	4961.2	3870.6	2943.6	2071.5	1496.6	1170.4	1028.5	972.5	963.2
15°	6187.5	5637.5	4400.8	3126.9	2038.3	1275.0	951.9	841.0	807.8	798.5	798.5
17.5°	5981.4	5327.9	3853.0	2394.6	1348.5	893.8	788.2	763.3	753.0	751.9	753.0
20°	5766.0	5018.2	3314.4	1754.6	941.5	757.2	728.1	714.7	711.5	711.5	711.5
22.5°	5559.8	4708.5	2790.3	1253.2	755.0	690.8	676.3	667.0	663.9	662.9	660.8
25°	5362.0	4414.3	2278.7	885.5	662.9	632.8	620.4	608.0	598.6	593.5	590.4
27.5°	5199.4	4152.3	1802.2	710.5	598.6	572.8	557.3	538.6	515.8	505.5	501.3
30°	5069.9	3913.1	1388.9	599.7	538.6	512.7	488.9	456.7	423.6	406.0	404.9
32.5°	4968.4	3677.9	1054.4	530.3	484.7	452.6	418.5	378.0	339.7	320.1	319.0
35°	4918.8	3470.8	805.8	479.6	437.1	396.7	354.3	309.6	272.4	253.8	251.7
37.5°	4951.8	3295.7	628.7	437.1	396.7	350.1	300.3	253.8	220.6	204.0	203.0
40°	5073.0	3183.8	510.6	400.8	362.5	305.5	251.7	208.2	180.3	166.7	165.7
42.5°	5331.0	3142.4	436.1	370.8	329.4	264.1	209.2	172.0	146.1	136.8	134.6
45°	5761.8	3203.5	385.3	341.8	295.2	224.8	173.0	140.8	118.1	110.9	109.8
47.5°	6335.6	3364.1	349.1	313.8	264.1	189.6	143.9	113.9	96.3	89.1	88.0
50°	7075.1	3618.9	319.0	285.9	235.1	160.5	119.1	90.1	74.6	69.4	69.4
52.5°	7879.9	3922.4	292.0	260.0	206.2	133.6	96.3	69.4	59.1	52.8	52.8
55°	8544.9	4187.5	263.1	240.2	170.9	110.9	73.5	52.8	43.5	40.4	40.4
57.5°	9208.7	4470.2	229.9	206.2	136.8	90.1	55.9	39.4	32.1	30.0	30.0
60°	10069.5	4816.2	197.9	167.8	107.7	68.4	41.5	27.9	23.8	22.8	22.8
62.5°	11016.1	5019.2	168.8	134.6	83.9	50.8	30.0	18.6	17.6	17.6	16.6
65°	11595.1	4732.3	141.9	107.7	65.2	38.3	19.7	13.5	15.6	14.5	12.4
67.5°	10856.6	3704.9	116.0	83.9	50.8	29.0	12.4	9.3	16.6	13.5	10.3
70°	8989.2	2593.5	90.1	59.1	40.4	24.9	8.3	6.2	17.6	13.5	8.3
72.5°	6727.2	1735.9	71.4	39.4	30.0	21.7	7.3	3.1	15.6	11.4	7.3
75°	3675.9	699.1	57.0	24.9	18.6	15.6	5.2	2.0	10.3	8.3	5.2
77.5°	967.4	184.4	41.5	16.6	10.3	6.2	3.1	1.0	5.2	4.1	2.0
80°	246.5	71.4	26.9	11.4	7.3	3.1	0.0	0.0	1.0	0.0	0.0
82.5°	131.5	30.0	16.6	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	99.4	19.7	9.3	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	6.2	3.1	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)