

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: P323972

Luminaire Tested: **GLEON-SA8C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33821 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

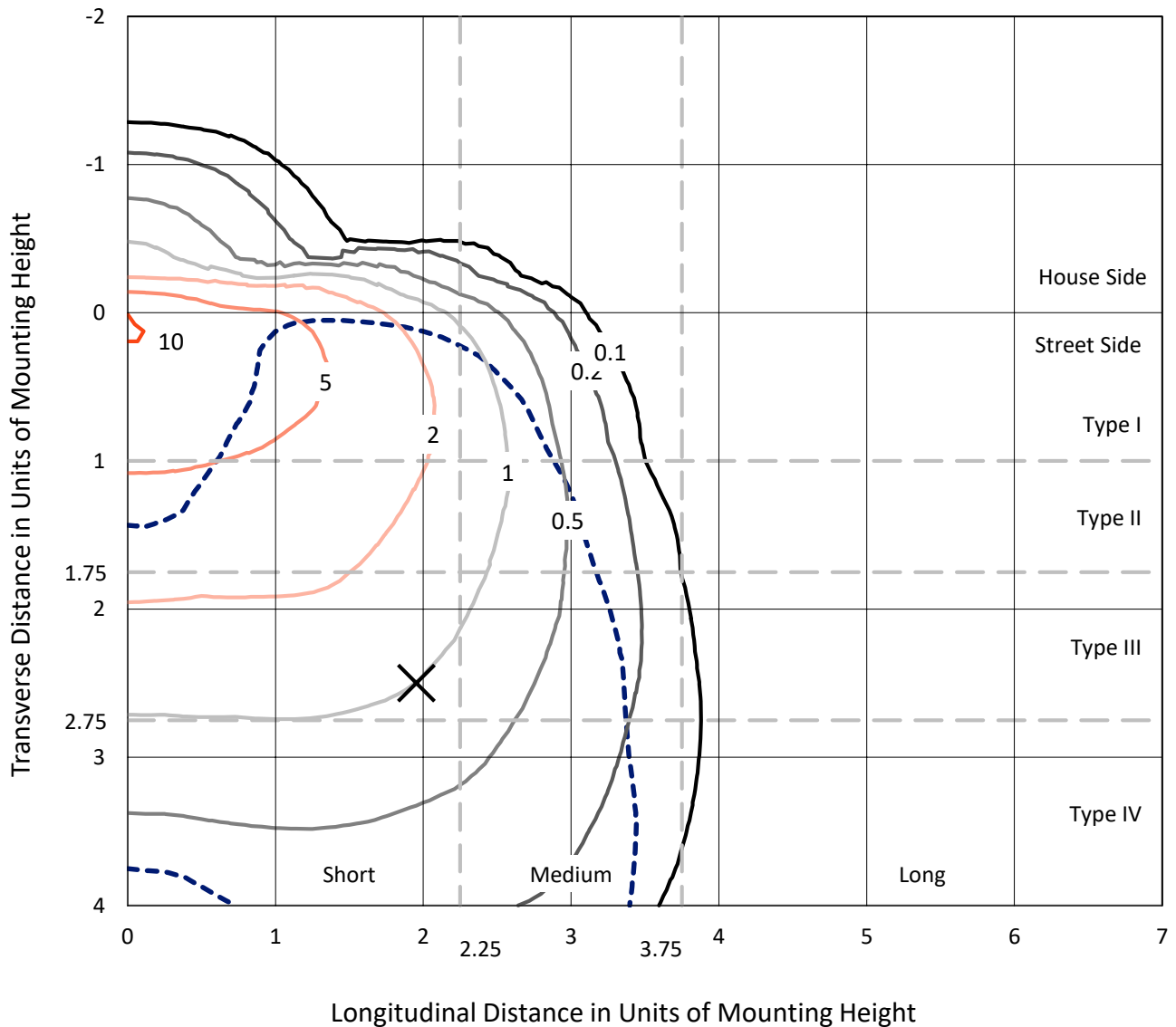
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

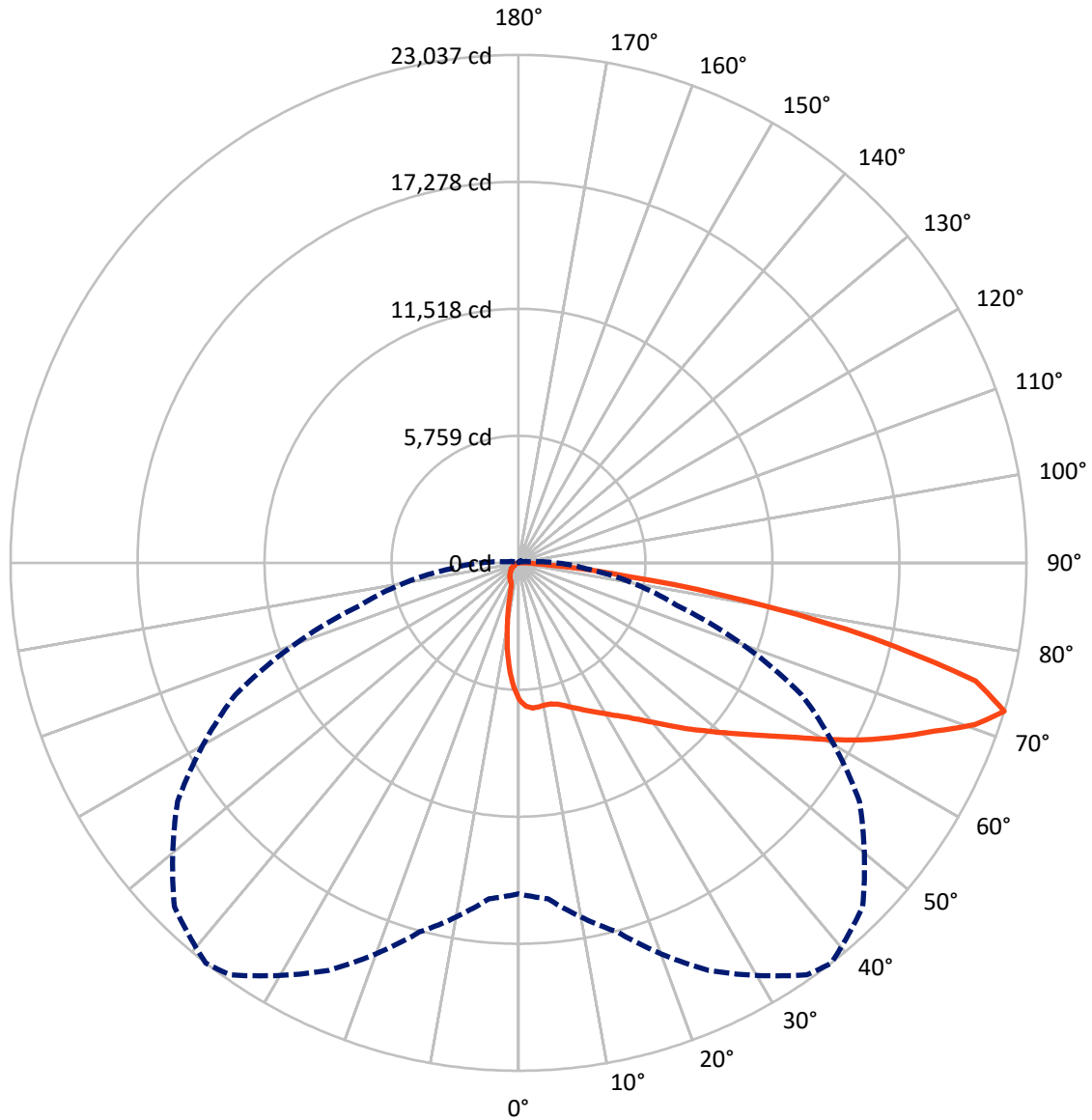
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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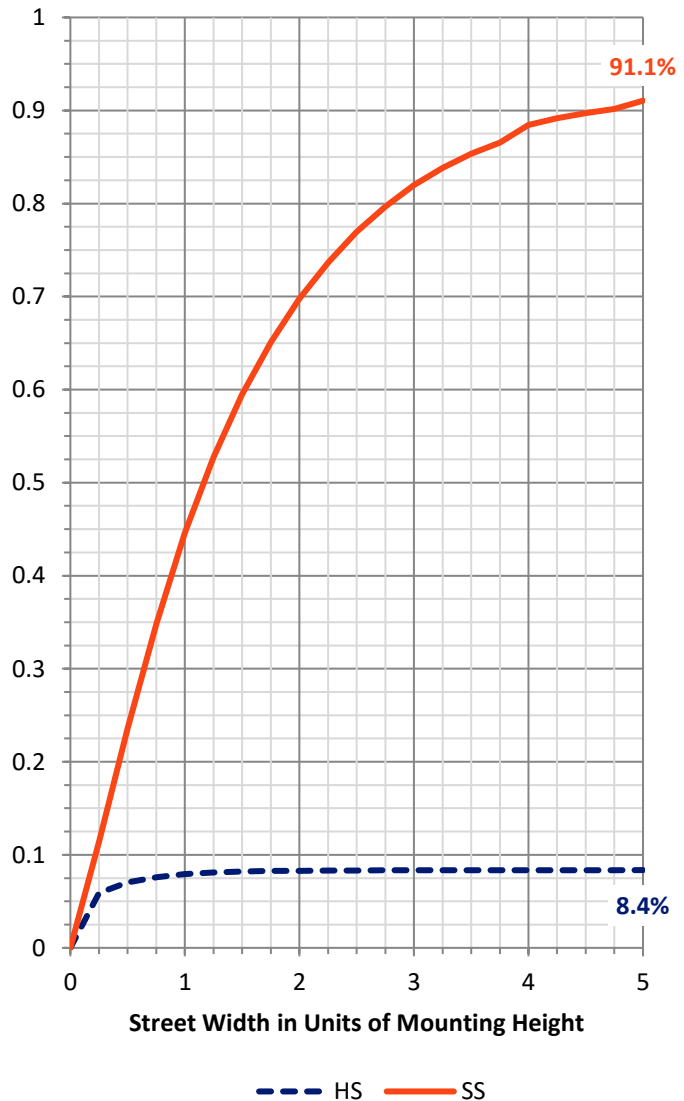
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.2	0.0	2846.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30974.8	0.0	30974.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	33821.0	0.0	33821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.0	1.6
10°-20°	1296.0	3.8
20°-30°	2061.3	6.1
30°-40°	3099.0	9.2
40°-50°	4727.7	14.0
50°-60°	6681.8	19.8
60°-70°	8381.2	24.8
70°-80°	6266.8	18.5
80°-90°	777.1	2.3
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°	33821.0	100.0
0°-180°	33821.0	100.0

Coefficient of Utilization

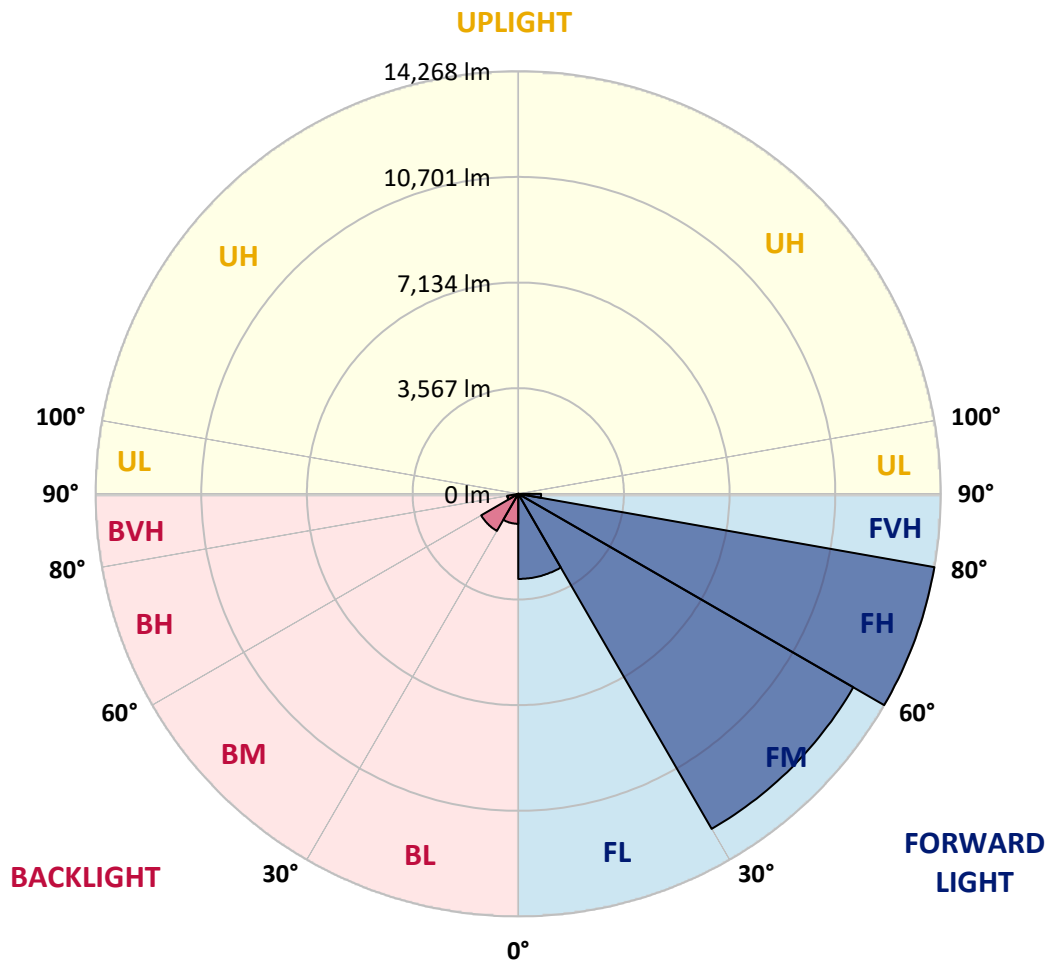


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.0	8.5			
FM (30°-60°)	13063.2	38.6			
FH (60°-80°)	14267.9	42.2			G5
FVH (80°-90°)	769.8	2.3			G5
BL (0°-30°)	1013.4	3.0	B3/2500		
BM (30°-60°)	1445.3	4.3	B2/2500		
BH (60°-80°)	380.2	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6
2.5°	6601.6	6603.0	6587.6	6562.3	6530.0	6513.1	6485.0	6440.1	6392.3	6306.7	6214.0
5°	6736.5	6736.5	6716.8	6683.1	6631.1	6615.7	6562.3	6490.7	6392.3	6253.3	6097.4
7.5°	6722.4	6725.2	6698.5	6663.4	6611.5	6597.4	6532.8	6452.7	6330.5	6162.0	5962.5
10°	6649.4	6656.4	6635.3	6618.5	6570.7	6555.3	6494.9	6414.8	6292.6	6112.8	5883.9
12.5°	6574.9	6582.0	6589.0	6604.4	6574.9	6569.3	6521.6	6454.1	6337.6	6150.7	5892.3
15°	6527.2	6541.2	6591.8	6652.2	6659.2	6653.6	6622.7	6559.5	6441.5	6247.7	5952.7
17.5°	6527.2	6549.7	6655.0	6770.2	6810.9	6815.1	6788.4	6699.9	6559.5	6351.6	6008.9
20°	6582.0	6612.9	6777.2	6940.1	7007.6	7007.6	6955.6	6832.0	6667.6	6445.7	6046.8
22.5°	6722.4	6763.2	6969.6	7157.8	7229.5	7214.0	7143.8	6964.0	6780.0	6552.5	6094.6
25°	6999.1	7030.0	7244.9	7434.5	7478.1	7443.0	7354.5	7124.1	6923.3	6697.1	6181.6
27.5°	7355.9	7360.1	7582.0	7742.2	7715.5	7691.6	7580.6	7325.0	7129.8	6903.6	6331.9
30°	7747.8	7747.8	7943.0	8065.2	7983.7	7964.1	7853.1	7568.0	7393.8	7184.5	6545.4
32.5°	8127.0	8143.9	8302.6	8379.8	8288.5	8268.9	8160.7	7875.6	7745.0	7612.9	6878.3
35°	8493.6	8506.3	8656.6	8698.7	8611.6	8617.2	8540.0	8298.4	8249.2	8232.4	7379.8
37.5°	8849.0	8851.8	9004.9	9031.6	8988.0	9035.8	9042.8	8829.3	8920.6	9056.9	8086.3
40°	9173.4	9176.3	9328.0	9396.8	9471.2	9533.0	9587.8	9474.0	9776.0	10092.1	8927.6
42.5°	9433.3	9462.8	9655.2	9785.9	9982.5	10100.5	10249.4	10243.8	10794.4	11269.1	9944.6
45°	9662.2	9712.8	9981.1	10210.0	10547.1	10735.4	10968.5	11151.1	11940.5	12579.6	10974.1
47.5°	9964.2	10012.0	10318.2	10693.2	11142.7	11389.9	11776.2	12170.9	13200.4	13866.2	11979.8
50°	10389.8	10368.8	10670.7	11208.7	11786.0	12110.5	12661.1	13252.4	14450.5	14987.1	12571.2
52.5°	10843.5	10835.1	11058.4	11769.1	12544.5	12923.7	13651.3	14370.5	15645.8	15759.6	12842.3
55°	11405.4	11345.0	11533.2	12408.2	13444.8	13852.2	14709.0	15477.3	16598.2	16195.0	12978.5
57.5°	11993.9	11894.2	12073.9	13120.4	14460.4	14942.1	15880.4	16556.0	17231.6	16492.8	12977.1
60°	12602.1	12484.1	12697.6	14010.9	15721.7	16279.3	17150.2	17285.0	17823.0	16643.1	12881.6
62.5°	13110.5	13040.3	13357.7	14963.2	17130.5	17678.3	18109.5	17948.0	18321.6	16759.7	12658.3
65°	13648.5	13652.7	14165.4	16074.2	18627.8	18997.2	19033.7	18807.6	18738.8	16735.8	11902.6
67.5°	14376.1	14443.5	15298.9	17582.8	20084.4	20369.5	20366.7	19738.8	19043.6	15786.3	10226.9
70°	15145.8	15304.5	16605.2	19309.0	21674.4	21963.7	21814.8	20331.6	17931.1	12765.0	7237.9
72.5°	15016.6	15291.9	17331.4	20397.6	22816.3	23036.9	22069.1	18875.0	14172.4	7419.1	3081.7
75°	11585.1	11904.0	15891.6	19318.9	21618.2	21420.2	18962.1	14687.9	7745.0	2070.4	693.9
77.5°	6119.8	6289.8	10498.0	14717.4	16856.6	16442.3	13357.7	8148.1	2361.1	512.7	311.8
80°	3205.3	3244.6	4574.8	8350.3	10403.9	10406.7	7916.3	3578.9	973.4	262.7	209.3
82.5°	1716.4	1750.1	2417.3	3858.4	5451.3	4941.4	3031.1	1969.2	566.1	148.9	200.9
85°	413.0	420.0	1370.9	1762.8	2143.4	1531.0	900.3	1653.2	153.1	87.1	162.9
87.5°	158.7	161.5	508.5	762.7	546.4	354.0	421.4	616.6	19.7	33.7	25.3
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°	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6	6219.6
2.5°	6157.8	6121.2	6031.4	5917.6	5816.5	5743.4	5633.9	5562.2	5514.5	5513.1	5494.8
5°	6001.9	5927.4	5733.6	5503.2	5293.9	5105.7	4883.8	4708.2	4577.6	4556.5	4511.6
7.5°	5834.7	5712.5	5414.7	5055.2	4704.0	4347.2	3932.9	3675.8	3455.3	3350.0	3338.7
10°	5732.2	5560.8	5138.0	4618.3	4067.7	3487.6	2945.4	2570.4	2299.3	2222.1	2164.5
12.5°	5711.1	5485.0	4924.5	4208.2	3421.6	2654.7	2054.9	1656.0	1439.7	1370.9	1352.6
15°	5732.2	5449.8	4744.7	3802.3	2767.1	1883.6	1379.3	1147.6	1066.1	1046.4	1045.0
17.5°	5744.8	5407.7	4541.1	3351.4	2132.2	1345.6	1056.3	988.8	976.2	974.8	977.6
20°	5743.4	5343.1	4298.1	2848.5	1585.8	1057.7	955.1	941.1	938.3	939.7	938.3
22.5°	5733.6	5267.3	4031.2	2330.2	1198.1	945.3	911.6	903.2	901.8	901.8	901.8
25°	5751.8	5206.9	3737.6	1834.4	987.4	893.3	872.3	865.2	863.8	863.8	861.0
27.5°	5817.9	5173.1	3416.0	1411.6	891.9	847.0	830.1	828.7	824.5	823.1	825.9
30°	5924.6	5173.1	3063.4	1098.4	834.3	799.2	786.6	783.8	782.4	781.0	782.4
32.5°	6112.8	5212.5	2678.6	913.0	779.6	745.8	737.4	741.6	737.4	737.4	737.4
35°	6452.7	5330.5	2275.5	796.4	722.0	693.9	685.4	691.1	688.3	688.3	686.8
37.5°	6948.6	5549.6	1869.5	726.2	671.4	641.9	630.7	639.1	636.3	636.3	634.9
40°	7552.5	5868.4	1483.3	672.8	622.2	591.3	581.5	585.7	578.7	578.7	581.5
42.5°	8298.4	6272.9	1146.2	620.8	573.1	543.6	538.0	533.7	521.1	514.1	515.5
45°	9127.1	6694.3	893.3	570.3	526.7	502.8	494.4	483.2	462.1	448.1	449.5
47.5°	9867.3	7018.8	726.2	521.1	484.6	466.3	453.7	432.6	401.7	384.9	386.3
50°	10256.4	7067.9	618.0	471.9	445.3	427.0	408.7	376.4	339.9	321.7	320.2
52.5°	10356.1	6837.6	538.0	427.0	405.9	384.9	361.0	317.4	276.7	257.0	254.2
55°	10392.6	6486.4	466.3	384.9	363.8	339.9	309.0	259.9	221.9	202.3	200.9
57.5°	10271.8	5962.5	410.1	346.9	321.7	292.2	254.2	207.9	171.4	155.9	155.9
60°	10003.6	5253.2	366.6	306.2	278.1	244.4	205.1	161.5	127.8	115.2	115.2
62.5°	9468.4	4334.6	325.9	264.1	237.4	202.3	165.7	122.2	89.9	82.9	84.3
65°	8458.5	3288.2	285.1	226.1	202.3	167.1	129.2	87.1	60.4	60.4	63.2
67.5°	6898.0	2283.9	243.0	192.4	174.2	136.2	98.3	60.4	42.1	47.8	53.4
70°	4566.4	1281.0	207.9	158.7	148.9	108.2	73.0	40.7	33.7	44.9	54.8
72.5°	1723.4	498.6	174.2	127.8	129.2	82.9	52.0	30.9	30.9	49.2	64.6
75°	480.4	244.4	125.0	94.1	101.1	60.4	37.9	26.7	29.5	56.2	75.8
77.5°	282.3	179.8	81.5	54.8	68.8	42.1	25.3	21.1	25.3	47.8	73.0
80°	227.5	95.5	47.8	28.1	37.9	23.9	16.9	12.6	7.0	18.3	37.9
82.5°	227.5	57.6	22.5	19.7	19.7	12.6	8.4	5.6	1.4	0.0	9.8
85°	153.1	23.9	14.0	12.6	9.8	4.2	2.8	1.4	0.0	0.0	0.0
87.5°	25.3	9.8	5.6	2.8	1.4	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)