

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: P191247

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41791.6 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

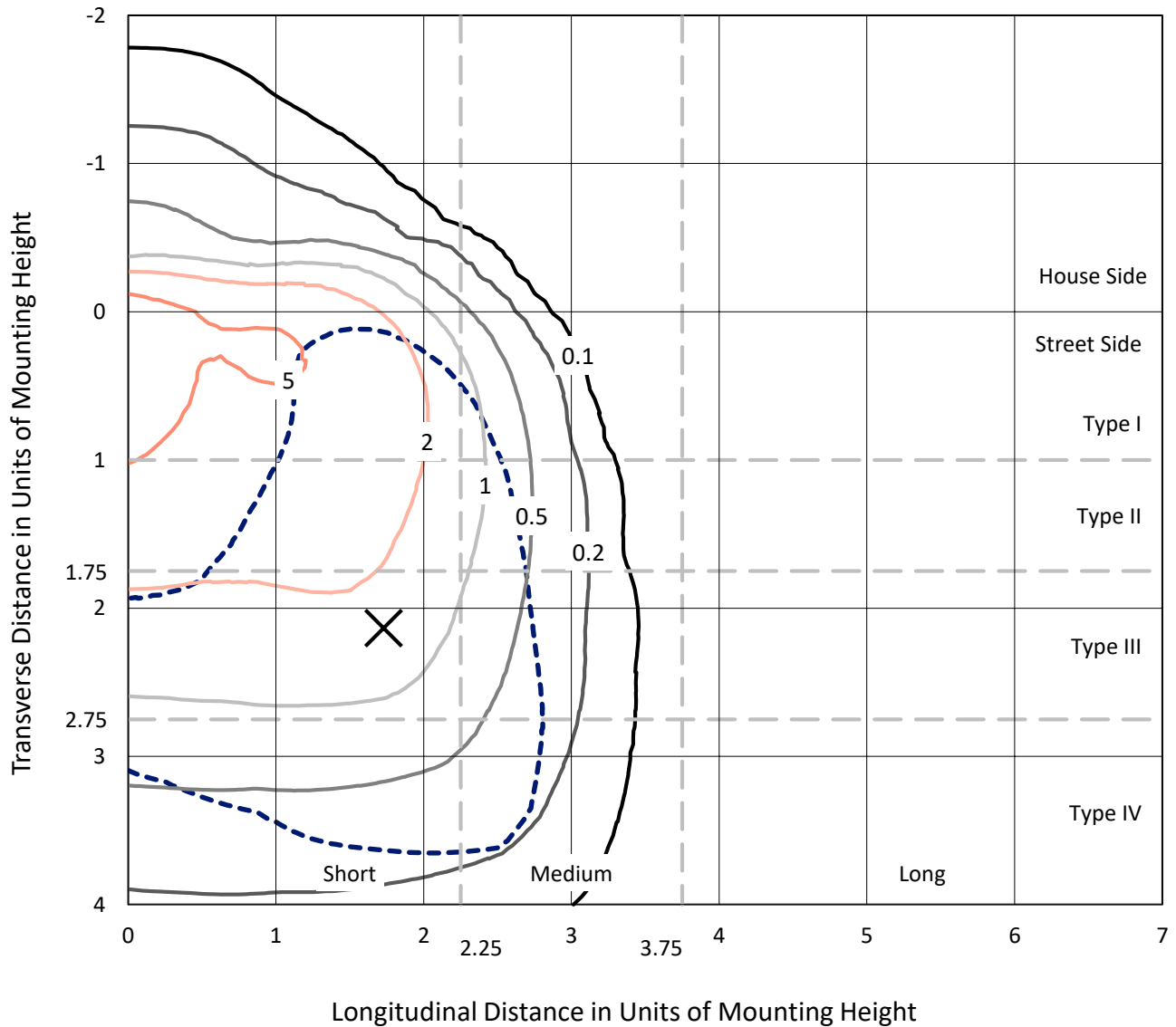
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

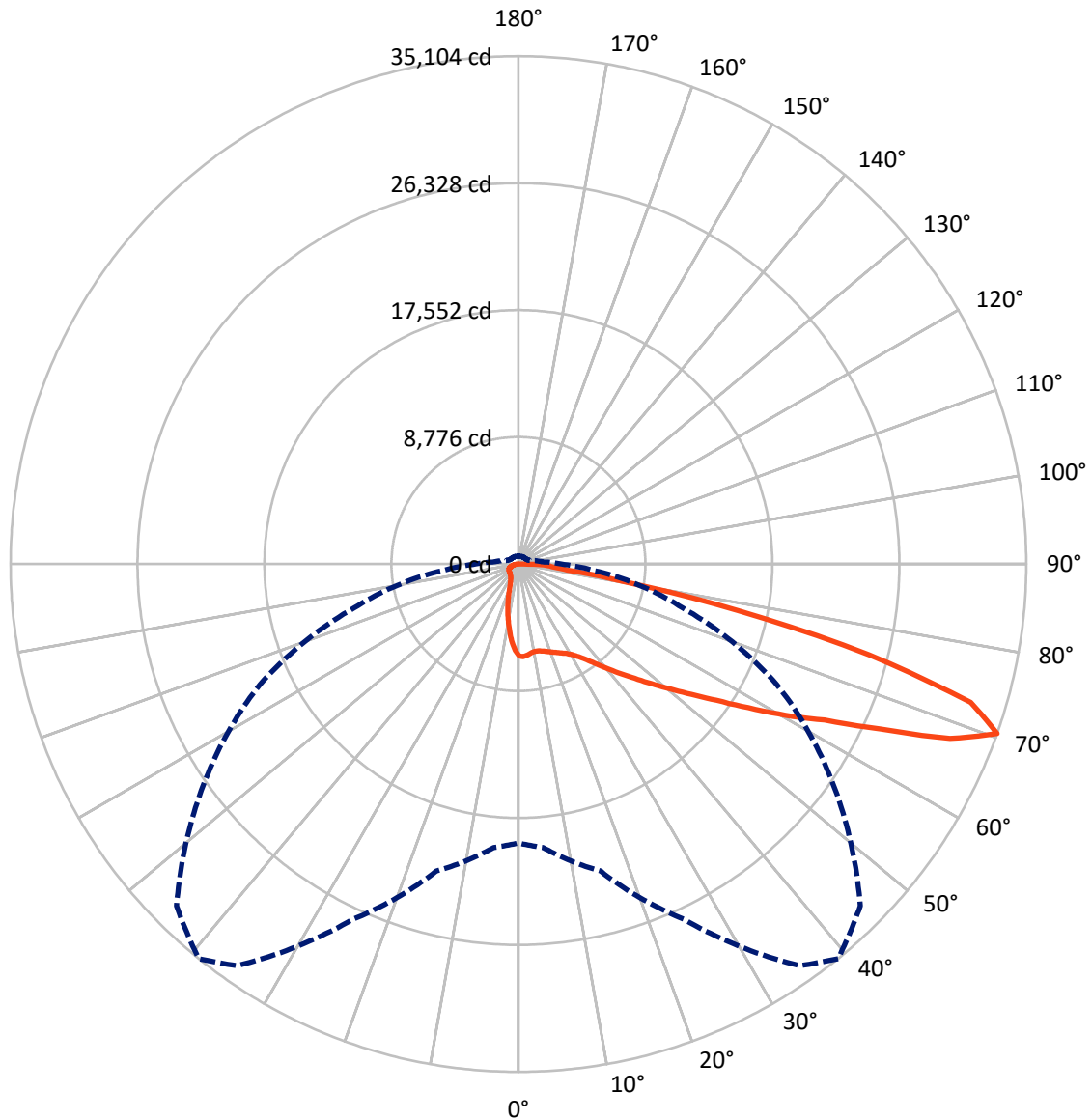
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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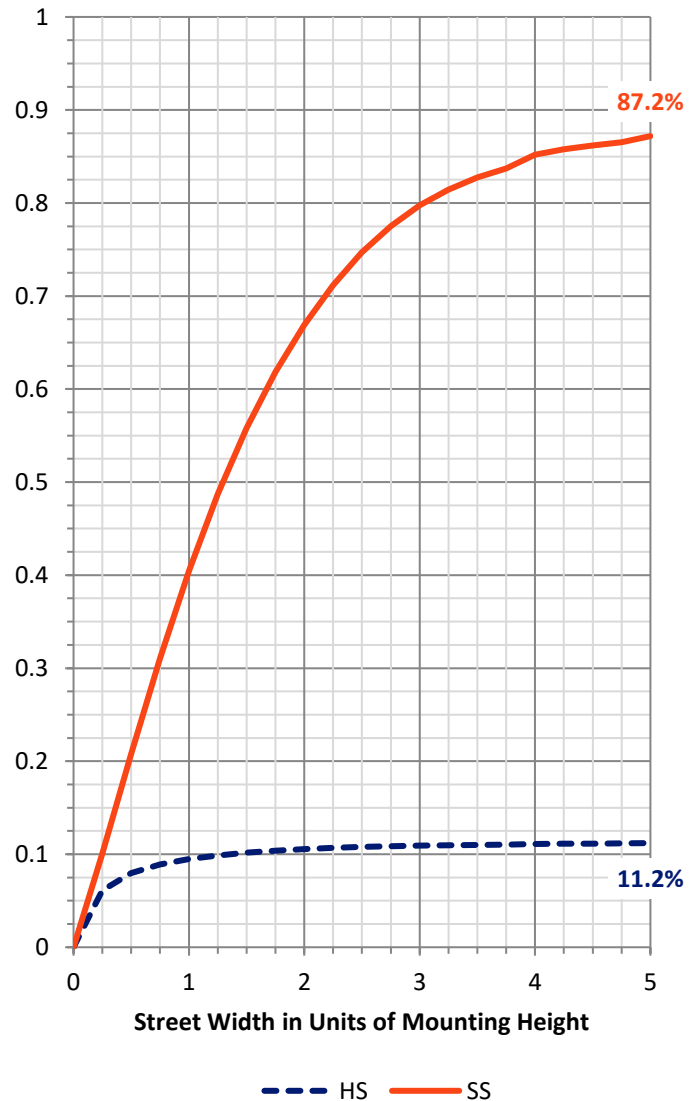
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4753.1	0.0	4753.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	37038.5	0.0	37038.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	41791.6	0.0	41791.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	1.3
10°-20°	1361.0	3.3
20°-30°	2119.1	5.1
30°-40°	3301.2	7.9
40°-50°	5542.2	13.3
50°-60°	8804.3	21.1
60°-70°	11743.9	28.1
70°-80°	7091.9	17.0
80°-90°	1283.5	3.1
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°	41791.6	100.0
0°-180°	41791.6	100.0



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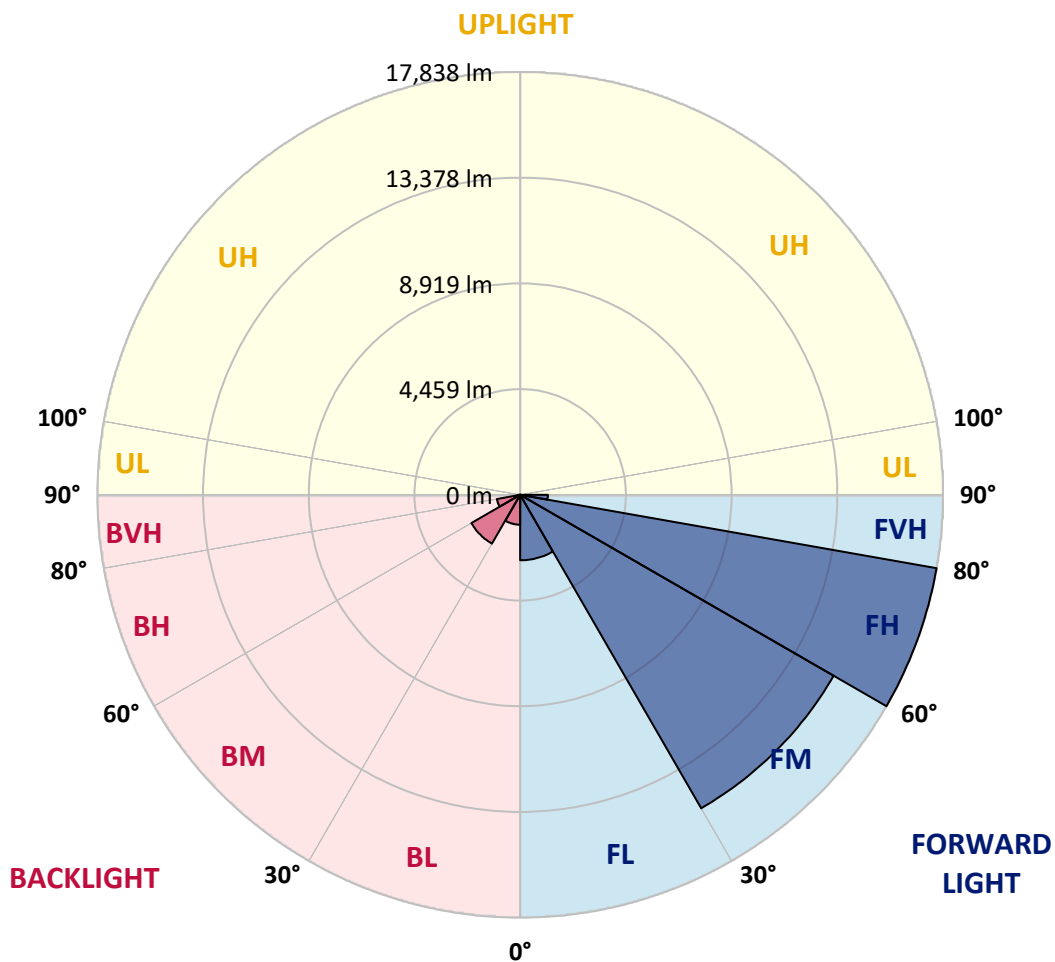
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2763.7	6.6			
FM	(30°-60°)	15269.1	36.5			
FH	(60°-80°)	17837.9	42.7			G5
FVH	(80°-90°)	1167.8	2.8			G5
BL	(0°-30°)	1260.9	3.0	B3/2500		
BM	(30°-60°)	2378.7	5.7	B2/2500		
BH	(60°-80°)	997.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	115.7	0.3			G2/225
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°	39°	45°	55°	65°	75°	85°
0°	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6
2.5°	6467.8	6465.8	6448.7	6436.0	6425.4	6421.1	6429.7	6397.7	6370.1	6336.2	6300.0
5°	6419.0	6416.9	6389.2	6363.8	6338.2	6329.7	6327.7	6270.3	6236.2	6185.3	6117.2
7.5°	6365.8	6355.3	6319.1	6276.6	6232.0	6210.7	6189.5	6115.1	6076.9	6025.9	5947.2
10°	6310.6	6297.9	6263.8	6221.4	6178.9	6147.0	6110.9	6038.7	5998.3	5960.0	5868.7
12.5°	6253.3	6242.7	6234.2	6215.0	6185.3	6157.7	6130.0	6068.3	6025.9	5981.3	5875.0
15°	6244.7	6240.5	6259.6	6272.3	6255.3	6238.4	6208.6	6155.5	6110.9	6066.3	5928.2
17.5°	6312.7	6310.6	6359.5	6393.4	6385.0	6355.3	6314.9	6255.3	6219.2	6181.0	6008.9
20°	6461.5	6472.1	6531.6	6576.2	6533.7	6491.2	6425.4	6342.5	6323.4	6306.4	6091.8
22.5°	6742.0	6752.6	6795.1	6812.0	6701.6	6640.0	6548.6	6442.3	6429.7	6442.3	6191.6
25°	7179.7	7169.0	7162.7	7098.9	6897.0	6801.5	6684.6	6574.1	6580.4	6637.8	6331.9
27.5°	7759.7	7702.3	7613.1	7421.9	7101.0	6994.8	6852.4	6750.5	6790.9	6901.3	6542.2
30°	8361.1	8297.3	8091.2	7778.8	7368.7	7251.9	7092.5	6977.9	7084.0	7258.2	6822.7
32.5°	8917.8	8909.3	8607.5	8205.9	7738.5	7636.5	7477.2	7347.5	7519.6	7785.3	7243.4
35°	9525.4	9544.5	9183.3	8701.0	8237.8	8131.5	8016.9	7919.1	8148.5	8514.0	7853.2
37.5°	10175.6	10213.9	9786.8	9242.9	8807.2	8762.6	8694.7	8652.1	9007.0	9512.7	8705.2
40°	11044.7	11006.4	10413.5	9854.8	9506.3	9504.1	9483.0	9533.9	10124.7	10817.3	9799.6
42.5°	11975.3	11862.6	11078.7	10511.3	10273.4	10345.6	10388.1	10596.3	11469.6	12402.4	11133.9
45°	12978.2	12725.4	11769.2	11206.1	11125.4	11278.3	11422.9	11875.4	13052.5	14206.3	12595.7
47.5°	13779.2	13534.9	12483.2	11935.0	12111.3	12342.9	12621.3	13337.3	14824.6	16069.7	14038.5
50°	14410.3	14250.9	13203.4	12784.8	13197.1	13554.0	14008.7	14992.5	16669.0	17884.4	15375.0
52.5°	15022.2	14903.3	13930.1	13656.0	14471.9	14964.8	15583.2	16768.8	18560.0	19669.2	16499.0
55°	15574.7	15489.7	14712.1	14741.7	15972.0	16613.7	17391.4	18791.6	20621.1	21260.6	17450.9
57.5°	16197.3	16088.9	15604.4	16103.8	17899.2	18732.2	19743.6	21065.1	22554.6	22675.8	18175.5
60°	16824.1	16730.6	16594.6	17676.1	20347.0	21222.3	22180.6	23268.6	24515.8	23774.3	18132.9
62.5°	17368.1	17378.6	17618.8	19327.1	22743.8	23757.2	24925.9	26001.1	26290.0	23965.5	16792.2
65°	18290.2	18458.0	19174.1	21664.4	26117.9	27473.5	28907.8	28735.6	26780.9	22178.5	13917.3
67.5°	19386.6	19681.9	21133.1	24779.2	30382.4	32182.0	32736.6	29354.0	24815.4	18028.8	9920.7
70°	19276.1	19681.9	21978.8	27101.6	33896.7	35103.6	33420.8	26566.2	19705.3	11777.7	5269.4
72.5°	17117.3	17697.4	20255.7	26037.2	32789.8	32683.5	29014.0	19805.1	11707.6	4729.8	2058.9
75°	13046.2	13632.7	15833.9	20570.1	25916.0	25023.6	20587.1	10940.6	4443.0	1878.3	1298.2
77.5°	7504.8	7959.5	9659.3	12614.8	16441.6	15525.8	11459.0	4865.8	2163.0	1308.9	1013.5
80°	4190.1	4443.0	5475.5	6399.9	8057.2	7385.8	5127.1	3023.5	1614.8	949.8	781.9
82.5°	3312.5	3537.8	4428.0	4037.1	3680.2	3395.4	2945.0	2692.1	1289.7	599.1	467.5
85°	2893.9	3108.5	3748.1	3178.7	2513.6	2305.4	2392.5	2649.6	1002.9	361.2	399.5
87.5°	2681.5	2968.3	3340.1	2449.9	1956.9	1733.8	2207.6	2904.6	322.9	225.3	161.5
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°	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6	6344.6
2.5°	6268.1	6234.2	6178.9	6130.0	6053.5	6013.1	5968.5	5936.7	5911.1	5889.9	5923.9
5°	6074.8	6011.1	5894.1	5768.8	5620.1	5503.2	5405.5	5314.1	5250.4	5207.8	5237.6
7.5°	5892.0	5788.0	5605.2	5377.9	5122.8	4906.2	4727.7	4570.4	4462.0	4391.9	4419.6
10°	5788.0	5658.4	5375.7	5018.7	4642.7	4304.8	4024.4	3782.2	3614.3	3518.6	3533.5
12.5°	5762.4	5594.5	5203.6	4712.7	4198.6	3729.0	3333.8	2998.1	2762.3	2639.0	2643.2
15°	5781.5	5566.9	5042.1	4419.6	3769.4	3176.6	2683.6	2275.7	2001.5	1861.4	1859.2
17.5°	5813.4	5545.7	4872.1	4103.0	3333.8	2645.4	2095.0	1695.5	1453.3	1340.8	1332.3
20°	5847.4	5511.7	4680.9	3760.9	2881.2	2152.4	1640.3	1328.0	1175.0	1113.4	1109.2
22.5°	5896.3	5482.0	4483.3	3399.7	2437.2	1752.9	1349.3	1138.9	1058.1	1026.2	1022.0
25°	5975.0	5467.1	4273.0	3023.5	2037.7	1466.1	1175.0	1045.4	998.6	977.4	975.3
27.5°	6106.6	5488.3	4075.3	2658.1	1712.6	1272.8	1077.3	998.6	964.6	945.5	943.4
30°	6276.6	5554.2	3867.2	2311.8	1459.8	1141.0	1017.7	966.8	939.2	920.0	920.0
32.5°	6559.3	5664.7	3648.3	2012.1	1279.1	1049.6	973.1	939.2	915.7	900.9	898.8
35°	6975.7	5873.0	3444.3	1763.6	1149.5	983.8	934.9	909.4	892.4	883.9	883.9
37.5°	7581.3	6202.3	3263.7	1585.1	1070.9	939.2	898.8	879.6	869.0	869.0	869.0
40°	8395.1	6657.0	3117.0	1466.1	1026.2	907.3	871.1	856.3	849.9	852.0	852.0
42.5°	9400.1	7247.6	3019.3	1383.2	1005.0	888.1	852.0	839.3	832.9	830.8	832.9
45°	10545.3	7919.1	3008.7	1321.7	983.8	875.4	839.3	826.5	813.8	805.3	805.3
47.5°	11658.7	8601.2	3095.9	1300.4	960.4	860.5	828.7	815.9	796.8	777.6	777.6
50°	12642.4	9181.2	3212.7	1308.9	951.9	839.3	811.7	805.3	775.5	754.3	752.2
52.5°	13424.4	9627.4	3308.3	1334.3	960.4	824.4	790.4	792.6	760.7	737.3	735.2
55°	14051.3	9920.7	3282.8	1359.9	979.6	815.9	771.3	775.5	750.0	726.7	726.7
57.5°	14325.3	9812.2	3000.2	1338.6	994.4	818.1	756.5	773.5	752.2	730.9	730.9
60°	13736.8	8849.8	2471.1	1245.1	975.3	811.7	750.0	781.9	779.8	758.5	756.5
62.5°	11956.1	7126.5	1916.6	1107.0	909.4	779.8	733.0	779.8	803.2	796.8	794.6
65°	9215.3	5076.1	1463.9	958.3	820.2	726.7	688.4	730.9	762.8	771.3	769.2
67.5°	5981.3	3110.7	1128.2	818.1	720.3	665.0	631.1	650.2	656.5	656.5	652.3
70°	2940.7	1674.4	898.8	688.4	618.3	599.1	580.1	569.5	558.8	550.3	550.3
72.5°	1451.3	1094.3	739.4	582.2	533.4	524.8	520.6	507.8	499.3	488.7	484.5
75°	1073.0	890.3	628.9	490.8	459.0	450.4	459.0	448.4	446.2	437.7	433.4
77.5°	881.8	758.5	541.9	420.7	393.1	378.2	391.0	393.1	395.2	382.5	378.2
80°	716.1	641.7	452.6	348.4	322.9	312.3	320.8	337.9	342.1	322.9	314.5
82.5°	516.3	524.8	365.5	272.0	250.7	242.2	259.2	280.5	284.7	257.1	250.7
85°	433.4	437.7	280.5	193.3	172.1	159.4	187.0	208.3	223.1	195.5	189.1
87.5°	180.7	257.1	161.5	108.3	95.6	82.9	99.8	110.5	133.9	123.3	121.1
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)