

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: P192996

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192996
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-08-LED-E1-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 43841.4 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 25 FT

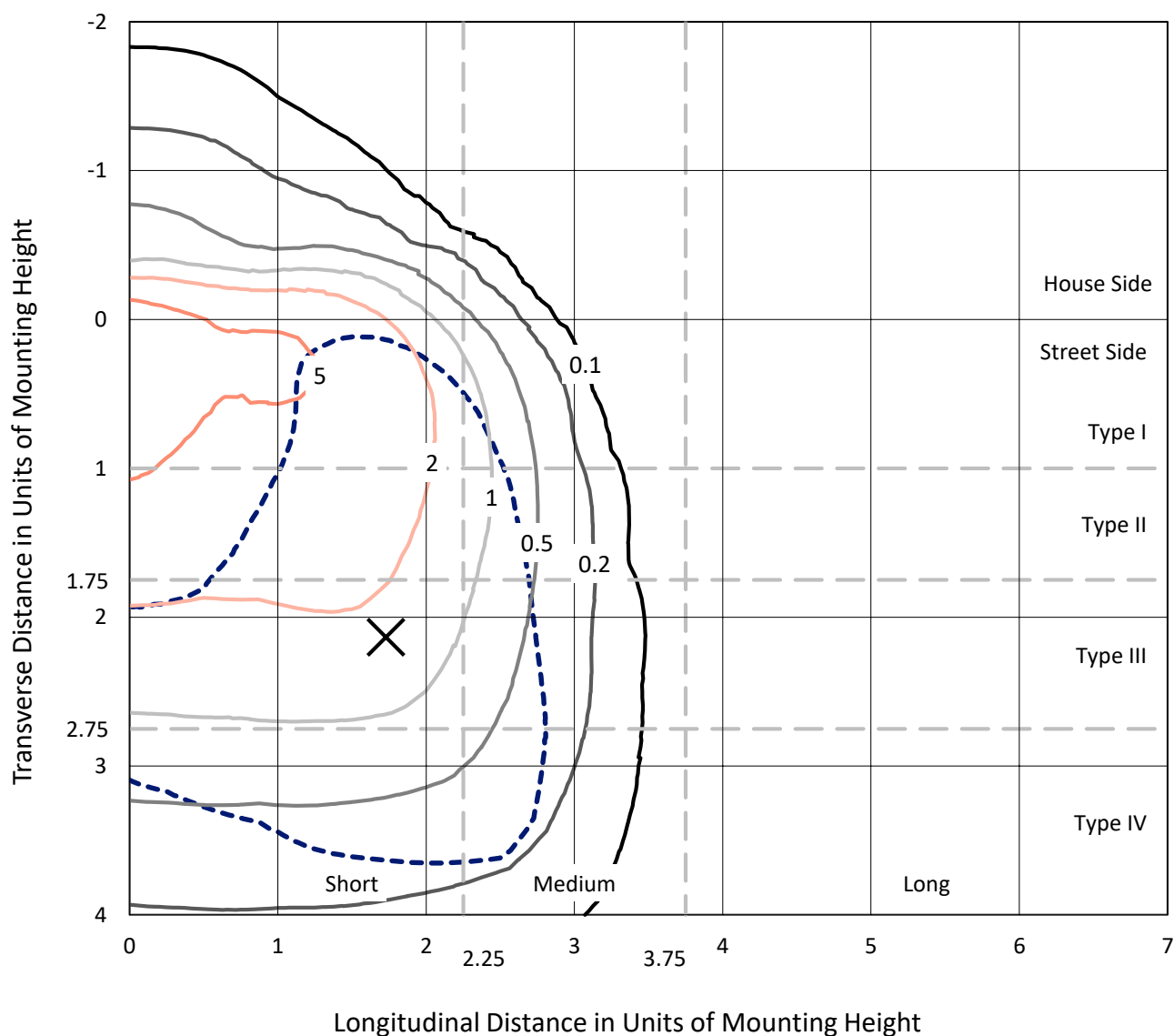


REPORT NUMBER: P192996

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

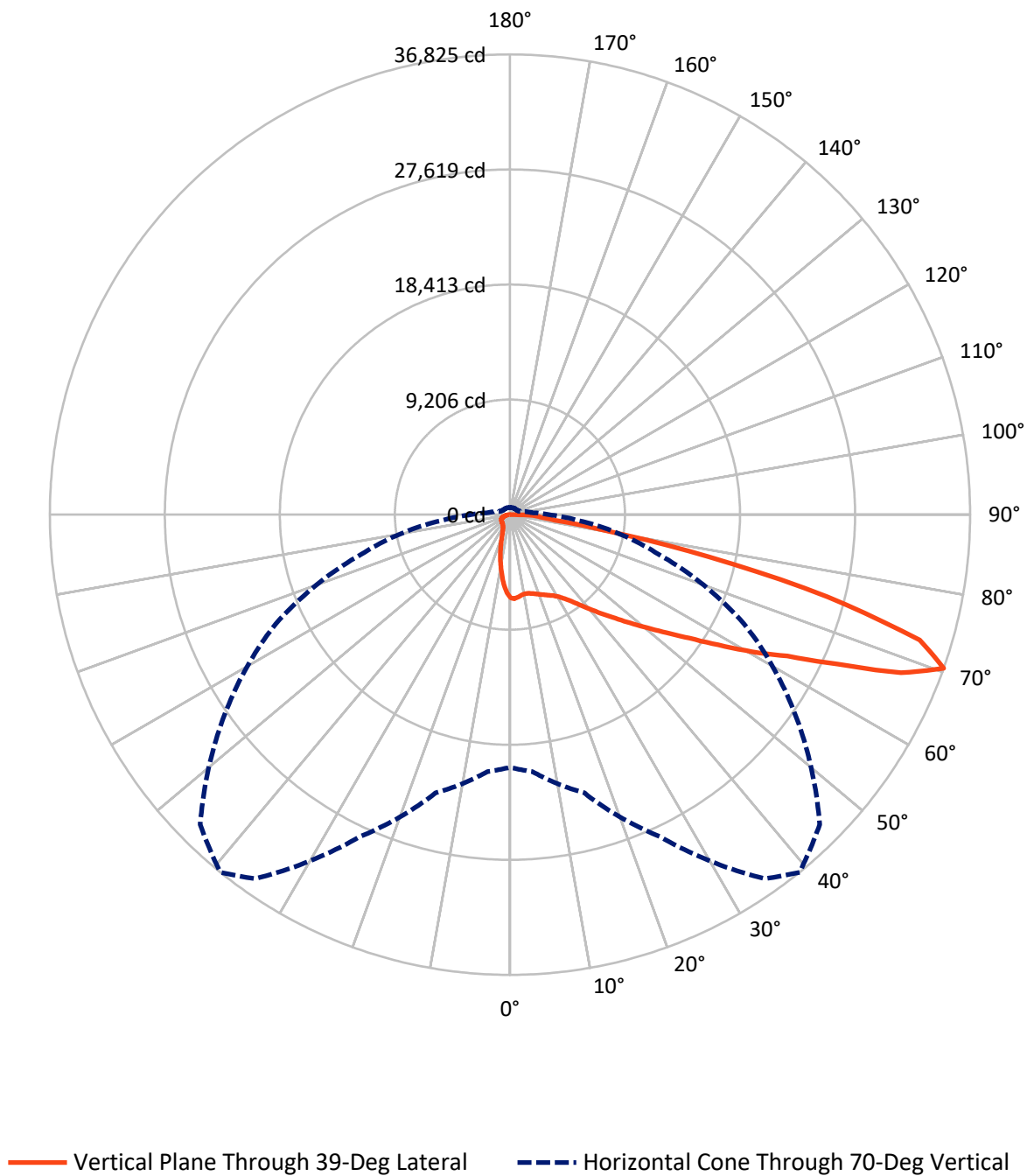


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192996

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4986.2	0.0	4986.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	38855.1	0.0	38855.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	43841.4	0.0	43841.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.2	1.3
10°-20°	1427.8	3.3
20°-30°	2223.1	5.1
30°-40°	3463.2	7.9
40°-50°	5814.0	13.3
50°-60°	9236.1	21.1
60°-70°	12319.9	28.1
70°-80°	7439.7	17.0
80°-90°	1346.5	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°	43841.4	100.0
0°-180°	43841.4	100.0

Coefficient of Utilization



REPORT NUMBER: P192996

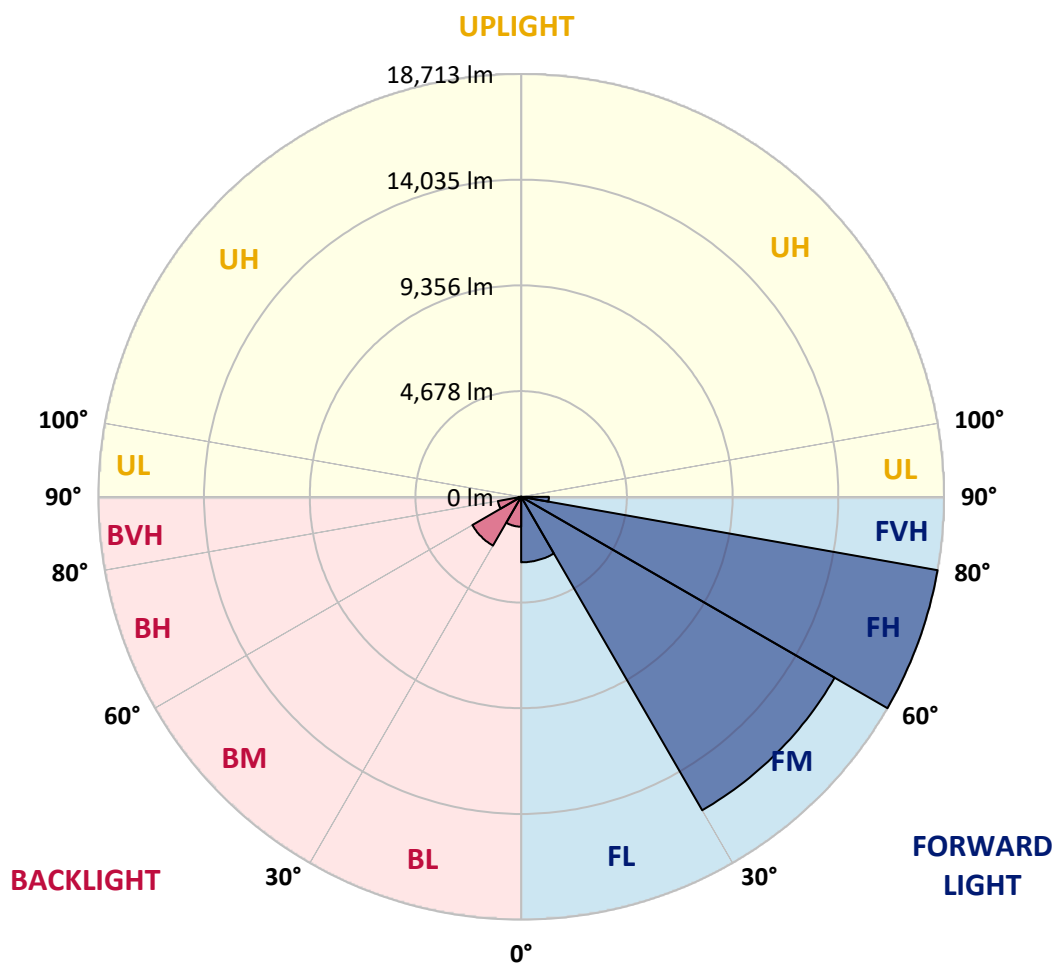
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2899.3	6.6			
FM	(30°-60°)	16017.9	36.5			
FH	(60°-80°)	18712.8	42.7			G5
FVH	(80°-90°)	1225.1	2.8			G5
BL	(0°-30°)	1322.8	3.0	B3/2500		
BM	(30°-60°)	2495.3	5.7	B2/2500		
BH	(60°-80°)	1046.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	121.4	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



REPORT NUMBER: P192996

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7
2.5°	6785.1	6782.9	6765.0	6751.6	6740.5	6736.1	6745.0	6711.6	6682.6	6646.9	6609.0
5°	6733.8	6731.6	6702.6	6675.8	6649.1	6640.2	6637.9	6577.7	6542.1	6488.6	6417.4
7.5°	6678.0	6666.9	6629.1	6584.5	6537.6	6515.3	6493.1	6415.0	6374.9	6321.4	6238.9
10°	6620.1	6606.8	6571.1	6526.5	6482.0	6448.5	6410.6	6334.9	6292.5	6252.4	6156.5
12.5°	6559.9	6548.8	6539.9	6519.8	6488.6	6459.6	6430.7	6366.0	6321.4	6274.6	6163.2
15°	6551.0	6546.6	6566.6	6580.0	6562.2	6544.3	6513.2	6457.4	6410.6	6363.8	6218.9
17.5°	6622.3	6620.1	6671.4	6707.1	6698.1	6666.9	6624.6	6562.2	6524.3	6484.2	6303.6
20°	6778.5	6789.6	6851.9	6898.7	6854.2	6809.6	6740.5	6653.6	6633.4	6615.6	6390.6
22.5°	7072.6	7083.8	7128.4	7146.2	7030.3	6965.6	6869.7	6758.3	6745.0	6758.3	6495.4
25°	7531.8	7520.7	7514.0	7447.1	7235.3	7135.0	7012.5	6896.6	6903.2	6963.4	6642.4
27.5°	8140.4	8080.2	7986.6	7786.0	7449.3	7337.9	7188.5	7081.5	7123.9	7239.8	6863.1
30°	8771.2	8704.2	8488.1	8160.3	7730.2	7607.6	7440.4	7320.1	7431.5	7614.3	7157.3
32.5°	9355.1	9346.2	9029.7	8608.4	8118.1	8011.0	7843.8	7707.9	7888.4	8167.0	7598.7
35°	9992.7	10012.6	9633.7	9127.7	8641.9	8530.4	8410.0	8307.5	8548.2	8931.6	8238.3
37.5°	10674.7	10714.8	10266.8	9696.1	9239.2	9192.4	9121.1	9076.5	9448.7	9979.2	9132.2
40°	11586.4	11546.2	10924.3	10338.1	9972.5	9970.4	9948.0	10001.5	10621.2	11347.8	10280.2
42.5°	12562.6	12444.5	11622.0	11026.9	10777.3	10853.0	10897.6	11116.0	12032.1	13010.7	11680.0
45°	13614.8	13349.6	12346.4	11755.8	11671.1	11831.5	11983.1	12457.8	13692.8	14903.1	13213.5
47.5°	14455.1	14198.8	13095.4	12520.3	12705.3	12948.4	13240.2	13991.4	15551.8	16857.9	14727.0
50°	15117.1	14950.0	13851.1	13411.9	13844.4	14218.8	14695.8	15727.9	17486.5	18761.6	16129.1
52.5°	15759.0	15634.2	14613.3	14325.7	15181.7	15698.8	16347.5	17591.3	19470.3	20633.8	17308.2
55°	16338.6	16249.5	15433.6	15464.8	16755.5	17428.6	18244.3	19713.3	21632.5	22303.4	18306.8
57.5°	16991.7	16878.1	16369.8	16893.5	18777.1	19651.0	20711.8	22098.3	23660.8	23787.9	19066.9
60°	17649.2	17551.2	17408.5	18543.1	21344.9	22263.3	23268.5	24409.8	25718.2	24940.3	19022.2
62.5°	18219.8	18231.0	18482.9	20275.0	23859.3	24922.5	26148.5	27276.2	27579.4	25140.9	17615.8
65°	19187.2	19363.4	20114.5	22726.9	27399.0	28821.0	30325.6	30145.0	28094.4	23266.3	14600.0
67.5°	20337.4	20647.3	22169.7	25994.6	31872.4	33760.4	34342.3	30793.6	26032.5	18913.1	10407.2
70°	20221.4	20647.3	23056.8	28430.9	35559.3	36825.3	35059.9	27869.2	20671.8	12355.4	5528.0
72.5°	17956.9	18565.4	21249.1	27314.2	34398.0	34286.5	30437.0	20776.5	12281.9	4961.8	2159.9
75°	13686.1	14301.3	16610.5	21578.9	27187.1	26250.9	21596.8	11477.1	4660.9	1970.5	1361.9
77.5°	7872.7	8349.8	10133.0	13233.6	17248.0	16287.3	12021.0	5104.4	2269.1	1373.1	1063.2
80°	4395.6	4660.9	5744.1	6713.8	8452.4	7748.0	5378.7	3171.9	1694.1	996.3	820.3
82.5°	3475.0	3711.3	4645.2	4235.1	3860.6	3562.0	3089.5	2824.2	1352.9	628.6	490.3
85°	3035.9	3261.1	3931.9	3334.6	2636.9	2418.5	2509.9	2779.5	1052.0	378.9	419.0
87.5°	2813.0	3113.9	3504.0	2570.0	2052.9	1818.8	2316.0	3047.0	338.8	236.3	169.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192996

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7	6655.7
2.5°	6575.6	6539.9	6482.0	6430.7	6350.4	6308.1	6261.3	6227.8	6201.1	6178.8	6214.4
5°	6372.8	6305.9	6183.2	6051.8	5895.7	5773.2	5670.5	5574.7	5507.9	5463.3	5494.5
7.5°	6181.1	6071.7	5880.2	5641.6	5374.1	5146.7	4959.5	4794.7	4680.8	4607.4	4636.3
10°	6071.7	5935.8	5639.4	5264.8	4870.3	4515.9	4221.8	3967.6	3791.6	3691.3	3706.8
12.5°	6045.1	5869.0	5458.8	4943.9	4404.5	3911.9	3497.3	3145.1	2897.7	2768.4	2772.9
15°	6065.1	5840.0	5289.5	4636.3	3954.2	3332.4	2815.3	2387.4	2099.8	1952.6	1950.4
17.5°	6098.6	5817.7	5111.1	4304.2	3497.3	2775.0	2197.8	1778.7	1524.6	1406.5	1397.5
20°	6134.3	5782.0	4910.4	3945.4	3022.5	2258.0	1720.9	1393.2	1232.7	1168.0	1163.5
22.5°	6185.5	5750.9	4703.2	3566.4	2556.6	1839.0	1415.5	1194.8	1110.1	1076.6	1072.2
25°	6267.9	5735.2	4482.5	3171.9	2137.6	1538.1	1232.7	1096.6	1047.6	1025.3	1023.1
27.5°	6406.2	5757.5	4275.2	2788.6	1796.5	1335.1	1130.1	1047.6	1012.0	991.8	989.7
30°	6584.5	5826.6	4056.8	2425.1	1531.4	1196.9	1067.7	1014.2	985.2	965.2	965.2
32.5°	6880.9	5942.5	3827.3	2110.9	1341.8	1101.2	1020.9	985.2	960.7	945.1	942.9
35°	7317.8	6160.9	3613.2	1850.1	1205.9	1032.1	980.7	954.1	936.2	927.3	927.3
37.5°	7953.1	6506.5	3423.7	1662.8	1123.4	985.2	942.9	922.8	911.7	911.7	911.7
40°	8806.8	6983.5	3269.9	1538.1	1076.6	951.7	913.9	898.3	891.5	893.8	893.8
42.5°	9861.0	7603.2	3167.4	1451.1	1054.4	931.8	893.8	880.4	873.7	871.6	873.7
45°	11062.5	8307.5	3156.3	1386.4	1032.1	918.4	880.4	867.1	853.8	844.8	844.8
47.5°	12230.5	9022.9	3247.6	1364.1	1007.5	902.7	869.2	855.9	835.9	815.8	815.8
50°	13262.6	9631.5	3370.2	1373.1	998.6	880.4	851.4	844.8	813.6	791.2	789.1
52.5°	14082.9	10099.6	3470.5	1399.8	1007.5	864.9	829.2	831.5	798.0	773.4	771.3
55°	14740.3	10407.2	3443.9	1426.6	1027.6	855.9	809.2	813.6	786.8	762.3	762.3
57.5°	15027.9	10293.6	3147.3	1404.3	1043.2	858.1	793.6	811.4	789.1	766.8	766.8
60°	14410.5	9283.8	2592.2	1306.2	1023.1	851.4	786.8	820.3	818.1	795.7	793.6
62.5°	12542.6	7476.1	2010.6	1161.3	954.1	818.1	768.9	818.1	842.6	835.9	833.6
65°	9667.1	5325.1	1535.7	1005.3	860.4	762.3	722.2	766.8	800.3	809.2	806.9
67.5°	6274.6	3263.2	1183.6	858.1	755.6	697.7	662.0	682.1	688.8	688.8	684.3
70°	3084.9	1756.5	942.9	722.2	648.7	628.6	608.5	597.3	586.1	577.3	577.3
72.5°	1522.4	1148.0	775.7	610.8	559.5	550.5	546.1	532.7	523.8	512.7	508.2
75°	1125.7	933.9	659.8	514.9	481.5	472.5	481.5	470.4	468.0	459.2	454.7
77.5°	925.0	795.7	568.3	441.3	412.4	396.7	410.2	412.4	414.6	401.2	396.7
80°	751.1	673.1	474.7	365.6	338.8	327.7	336.6	354.4	358.9	338.8	329.9
82.5°	541.6	550.5	383.4	285.2	263.0	254.1	271.9	294.2	298.8	269.8	263.0
85°	454.7	459.2	294.2	202.7	180.5	167.1	196.1	218.4	234.1	205.1	198.5
87.5°	189.4	269.8	169.4	113.6	100.3	87.0	104.8	116.0	140.4	129.3	127.1
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)