

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: P191176

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48802.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

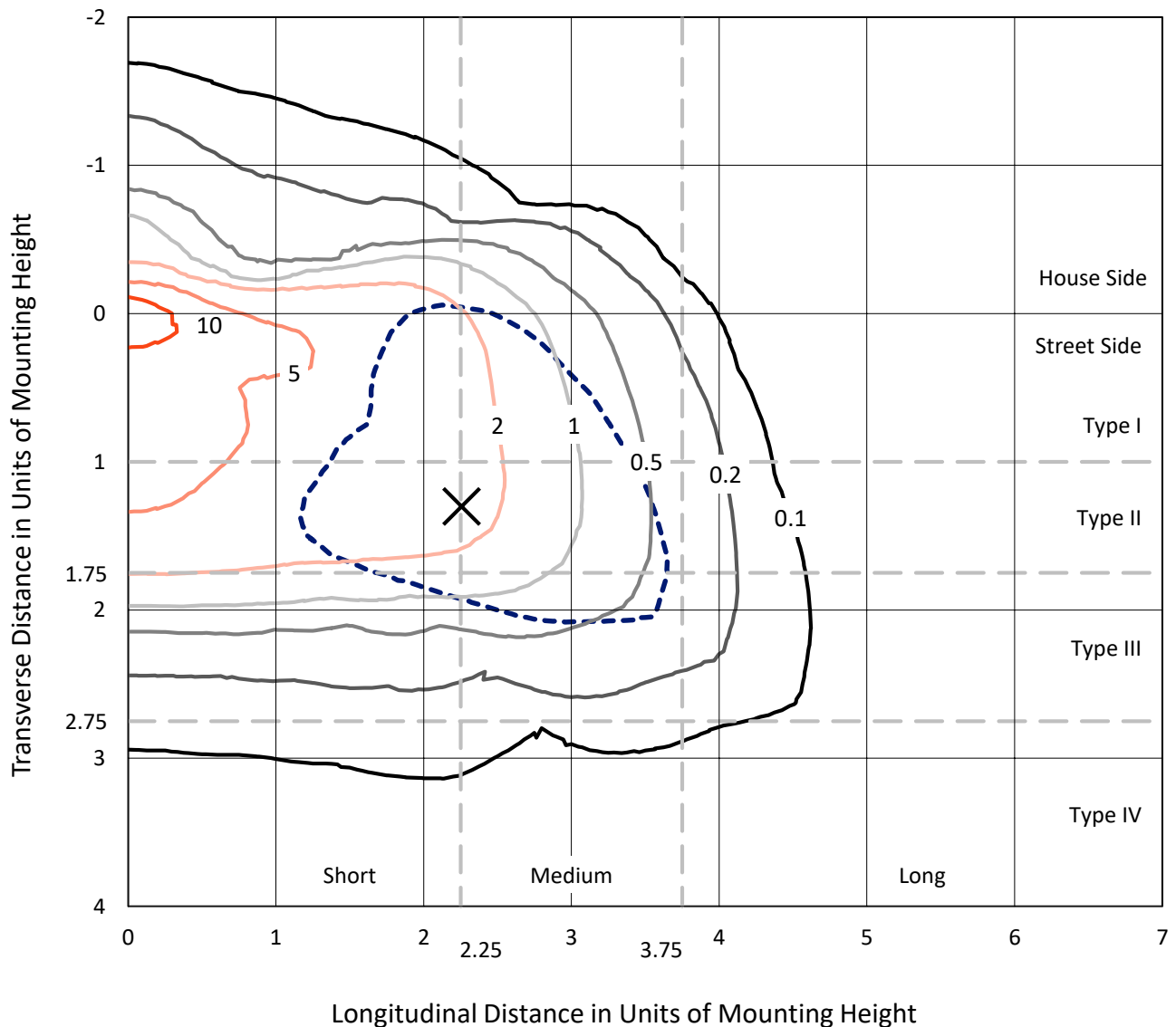


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

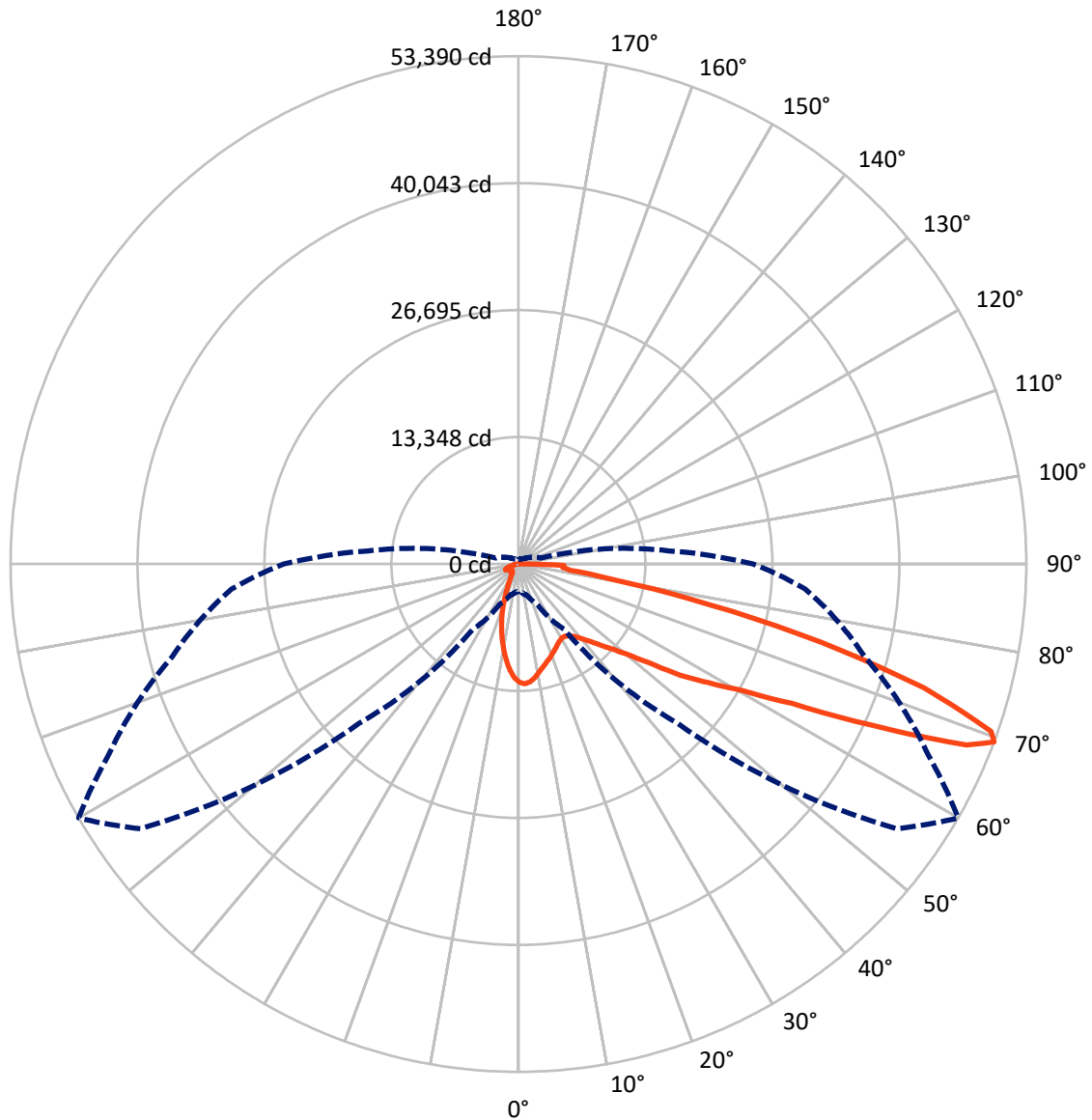


Based on 30 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6943.1	0.0	6943.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	41859.8	0.0	41859.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	48802.9	0.0	48802.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.5	2.2
10°-20°	2240.3	4.6
20°-30°	2854.5	5.8
30°-40°	3924.2	8.0
40°-50°	6367.4	13.0
50°-60°	10211.7	20.9
60°-70°	13591.0	27.8
70°-80°	7338.1	15.0
80°-90°	1224.4	2.5
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°	48802.9	100.0
0°-180°	48802.9	100.0

Coefficient of Utilization



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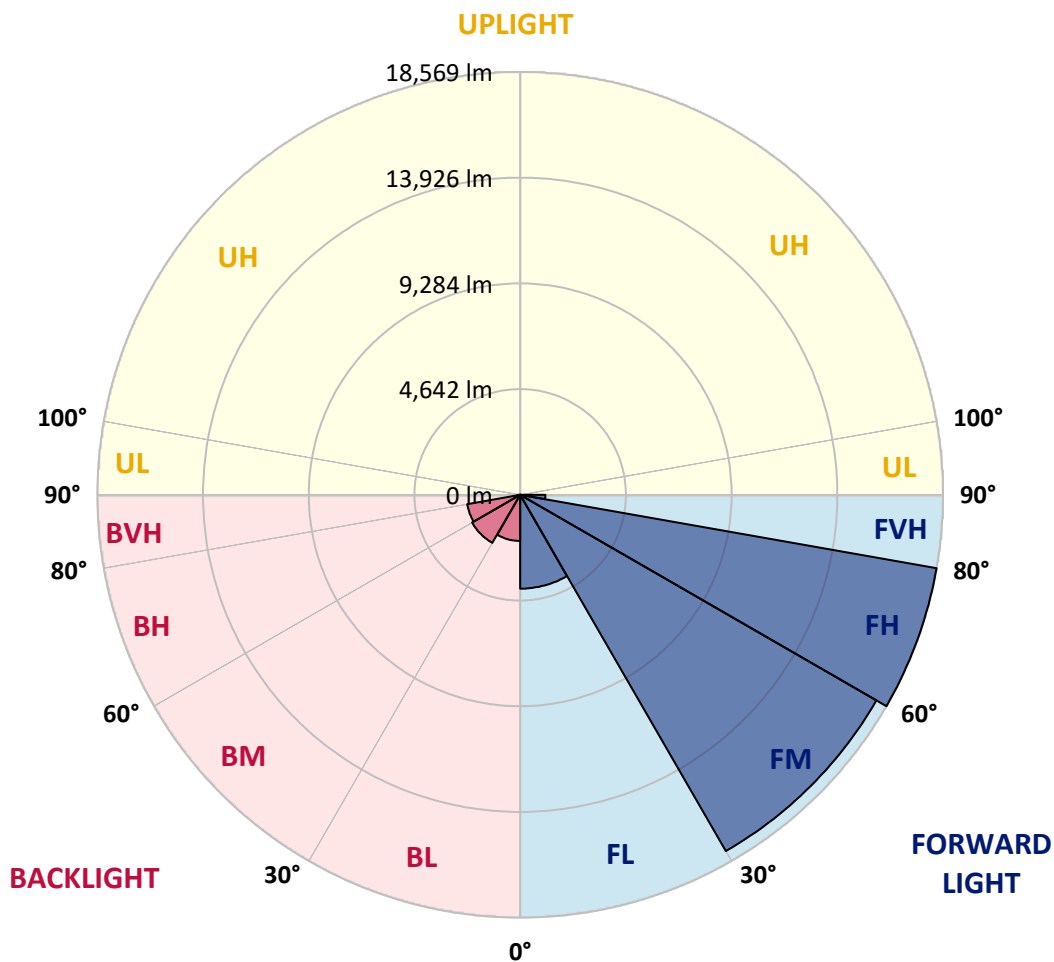
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4120.7	8.4			
FM (30°-60°)	18064.0	37.0			
FH (60°-80°)	18568.6	38.0			G5
FVH (80°-90°)	1106.5	2.3			G5
BL (0°-30°)	2025.5	4.2	B3/2500		
BM (30°-60°)	2439.2	5.0	B2/2500		
BH (60°-80°)	2360.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	117.9	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7
2.5°	12690.3	12718.7	12706.9	12699.7	12721.0	12688.0	12619.6	12598.4	12565.4	12487.6	12355.6
5°	12214.1	12299.0	12294.2	12358.0	12464.0	12492.3	12461.7	12466.4	12405.1	12308.5	12089.1
7.5°	11391.4	11426.8	11445.6	11584.7	11777.9	11933.5	12065.6	12108.1	12079.7	11997.3	11714.3
10°	10542.6	10571.0	10615.8	10778.4	11023.6	11238.1	11488.0	11631.9	11693.1	11678.9	11363.0
12.5°	9814.2	9842.5	9901.4	10085.3	10377.6	10641.7	11004.7	11183.9	11330.1	11417.3	11077.8
15°	9161.1	9222.5	9279.1	9491.2	9818.9	10165.5	10575.7	10802.0	11028.3	11224.0	10825.6
17.5°	8652.0	8713.3	8746.2	8939.6	9288.5	9712.8	10193.8	10460.2	10743.0	11063.7	10575.7
20°	8357.3	8385.5	8371.4	8479.9	8793.4	9243.7	9814.2	10123.0	10464.9	10912.8	10325.8
22.5°	8274.8	8277.1	8225.2	8213.5	8416.2	8795.7	9408.7	9783.6	10203.2	10813.8	10111.3
25°	8475.1	8468.1	8326.6	8211.1	8232.3	8454.0	9017.4	9453.5	9983.9	10792.5	9946.3
27.5°	8920.7	8941.9	8732.1	8515.2	8300.7	8293.7	8720.3	9180.1	9804.8	10889.2	9875.5
30°	9545.5	9580.9	9356.8	9081.0	8677.9	8345.5	8604.9	9017.4	9694.0	11089.6	9863.7
32.5°	10229.1	10266.8	10097.1	9807.1	9279.1	8666.1	8685.0	9031.5	9689.3	11370.1	9943.9
35°	10957.5	11000.0	10912.8	10667.6	10080.6	9257.8	8991.4	9260.2	9842.5	11799.2	10158.4
37.5°	11770.9	11837.0	11860.5	11627.1	11000.0	10038.2	9493.6	9694.0	10189.0	12395.6	10552.1
40°	12942.6	13034.5	13027.5	12692.7	12053.8	11092.0	10269.2	10321.1	10728.9	13192.5	11181.6
42.5°	15186.9	15205.8	14618.8	13890.3	13213.7	12200.0	11183.9	11141.5	11473.8	14201.5	12108.1
45°	18041.8	17964.0	16657.9	15250.6	14425.4	13473.0	12374.4	12167.0	12419.2	15432.1	13267.9
47.5°	20411.1	20231.9	18581.7	16639.1	15707.9	14856.8	13772.4	13409.4	13548.5	16827.7	14767.3
50°	21233.9	21099.5	19732.1	17794.3	16922.1	16544.8	15493.4	14979.5	15017.2	18492.1	16523.6
52.5°	21057.0	21038.2	20125.8	18555.7	18058.4	18317.7	17931.0	17235.6	16867.8	20340.4	18419.0
55°	20639.8	20679.9	20349.8	19442.2	19357.3	20029.2	21116.0	20602.0	19458.7	22205.2	20378.1
57.5°	19189.9	19293.7	20019.8	20557.2	21448.4	22447.9	23680.9	23534.7	22247.5	24220.8	22707.3
60°	15460.4	15700.9	17648.2	20340.4	23600.8	26726.8	27278.4	26939.0	25123.7	26722.1	25783.8
62.5°	10832.6	11082.5	13397.6	17610.4	23247.2	31559.7	33709.7	32245.7	29254.0	30406.8	29765.6
65°	5799.4	5919.6	7687.8	12218.8	19626.0	32556.8	43109.0	40881.1	35793.7	34949.7	33172.1
67.5°	3199.1	3265.2	3941.7	6169.5	12570.1	28669.3	49096.9	50780.2	43967.0	37974.4	32552.1
69°	2892.6	2954.0	3397.1	4672.5	8411.5	23704.5	48512.3	53390.0	47550.4	37675.0	30260.6
70°	2829.0	2885.5	3284.0	4307.1	6808.5	19538.9	46553.3	52722.8	48403.9	36602.3	28261.5
72.5°	2546.1	2607.4	2994.0	3868.6	5818.2	9741.2	36875.7	44577.6	43945.9	31736.4	21436.7
75°	2374.0	2430.5	3085.9	3788.5	5570.8	6164.8	24310.4	32853.9	32304.6	22200.4	11558.7
77.5°	1016.1	1011.4	1431.0	3206.1	5653.2	5969.1	13062.8	20524.3	18725.5	9488.9	3319.4
80°	678.9	667.2	678.9	943.0	5184.1	6002.2	6843.7	10417.7	7869.3	2418.8	1636.1
82.5°	584.6	575.2	596.5	575.2	1822.3	6850.8	5818.2	5540.1	3741.3	1374.4	811.0
85°	393.7	377.2	513.9	516.3	860.5	6087.1	6553.8	4679.6	3027.0	815.7	400.8
87.5°	188.6	183.9	299.4	365.4	504.5	2473.0	7353.0	4795.1	3052.9	417.3	191.0
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°	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7	12435.7
2.5°	12315.5	12218.8	12124.5	12011.4	11893.5	11761.5	11695.5	11629.5	11612.9	11594.1	11528.1
5°	11976.0	11839.3	11603.5	11344.2	11070.8	10804.3	10601.7	10474.3	10377.6	10328.1	10240.9
7.5°	11537.6	11337.2	10924.6	10476.7	10016.9	9597.3	9234.3	9005.5	8788.7	8687.3	8571.8
10°	11120.3	10820.9	10179.6	9519.5	8859.5	8225.2	7628.9	7206.8	6832.0	6622.2	6473.6
12.5°	10762.0	10351.8	9462.9	8569.5	7664.2	6761.3	5867.7	5165.3	4578.2	4269.4	4111.4
15°	10413.0	9917.9	8781.6	7647.7	6485.4	5257.1	4083.2	3286.3	2800.7	2607.4	2541.4
17.5°	10097.1	9462.9	8098.0	6718.8	5269.0	3783.8	2744.1	2305.6	2119.3	2055.7	2034.5
20°	9755.3	9003.2	7388.4	5747.6	4000.7	2645.1	2143.0	1949.6	1874.3	1855.3	1845.9
22.5°	9425.3	8550.6	6709.4	4707.9	2873.8	2041.6	1841.2	1761.0	1749.2	1765.7	1765.7
25°	9144.7	8145.1	5976.2	3621.1	2109.9	1718.6	1647.9	1629.0	1673.9	1735.1	1746.9
27.5°	8934.9	7812.7	5195.9	2673.4	1680.9	1494.6	1492.3	1523.0	1633.8	1751.6	1775.2
30°	8791.0	7496.8	4361.4	1928.5	1409.7	1315.5	1353.2	1419.2	1581.9	1749.2	1794.1
32.5°	8718.0	7263.4	3491.4	1492.3	1207.1	1155.2	1218.8	1298.9	1459.2	1614.8	1673.9
35°	8774.6	7091.3	2671.0	1244.7	1065.6	1025.5	1091.5	1169.3	1263.7	1329.6	1374.4
37.5°	8986.7	7023.0	2015.6	1115.1	968.9	931.2	983.1	1027.9	1065.6	1084.4	1105.7
40°	9444.1	7096.0	1614.8	1049.0	914.7	867.6	888.7	905.3	928.8	947.7	957.2
42.5°	10118.3	7315.2	1447.5	1023.2	886.4	818.1	813.3	820.4	851.1	886.4	893.4
45°	11061.3	7701.9	1435.7	1039.6	872.3	778.0	756.8	766.2	813.3	867.6	877.0
47.5°	12266.0	8291.3	1530.0	1089.1	884.0	756.8	721.4	733.1	792.1	865.2	877.0
50°	13725.2	9114.1	1688.0	1162.3	935.9	761.5	709.6	716.7	778.0	858.2	869.9
52.5°	15448.6	10281.0	1860.0	1233.0	990.1	792.1	719.0	702.6	759.1	829.8	843.9
55°	17365.2	11777.9	2036.9	1296.6	1018.4	829.8	737.9	683.6	723.7	782.7	794.4
57.5°	19718.0	13871.4	2343.4	1357.9	1037.3	855.8	756.8	664.8	678.9	721.4	730.8
60°	22902.9	16832.5	2883.2	1459.2	1079.7	865.2	754.4	648.3	634.1	657.8	662.5
62.5°	26719.7	20048.1	3333.5	1586.6	1150.4	872.3	740.2	636.5	596.5	596.5	601.2
65°	28985.3	20908.5	3083.6	1692.7	1209.4	865.2	723.7	624.7	568.1	542.3	544.6
67.5°	27063.9	18388.4	2642.7	1713.9	1207.1	832.2	697.9	603.5	539.9	499.8	497.5
69°	24656.9	15865.9	2444.8	1657.3	1150.4	789.7	664.8	579.9	518.6	476.2	473.8
70°	22716.7	14326.4	2315.0	1596.0	1089.1	759.1	638.8	558.7	502.2	462.1	457.4
72.5°	16516.6	9387.5	1978.0	1372.1	898.2	636.5	551.7	490.4	448.0	424.3	419.6
75°	8253.6	4476.8	1605.4	1112.8	688.3	509.2	452.7	410.2	389.0	384.2	381.9
77.5°	2711.1	2051.0	1148.1	829.8	511.6	398.4	365.4	334.8	330.0	344.2	339.5
80°	1489.9	1192.9	728.4	549.3	348.9	292.4	287.7	271.1	278.1	301.8	297.1
82.5°	759.1	620.0	450.3	330.0	235.8	209.8	228.6	219.2	228.6	249.9	247.6
85°	374.8	339.5	285.3	200.4	155.6	134.4	162.6	169.7	174.4	191.0	191.0
87.5°	216.9	200.4	150.9	94.3	77.8	70.7	94.3	92.0	108.4	117.8	115.5
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)