

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: P193728

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193728
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-10-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA 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: 52743 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

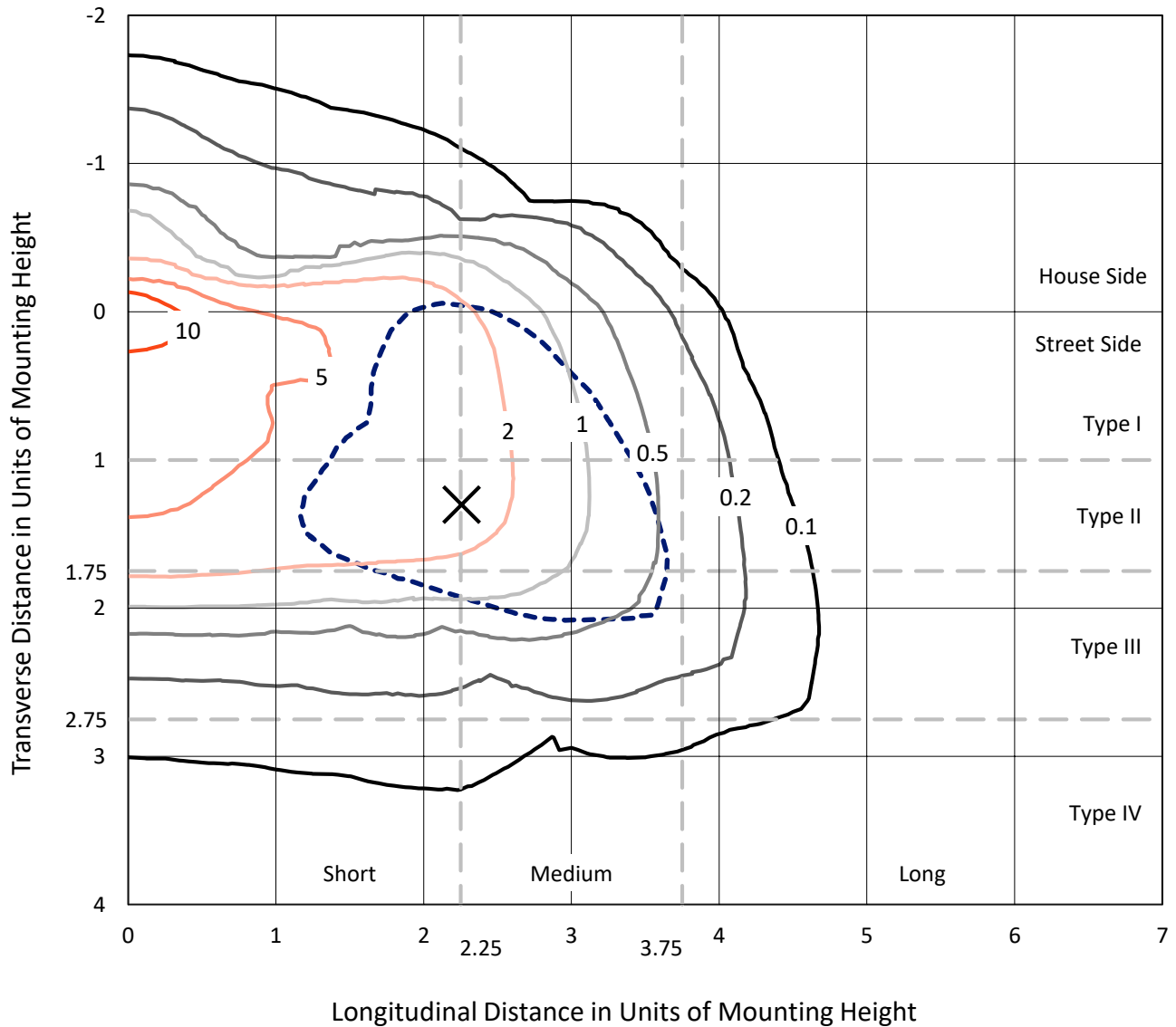


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

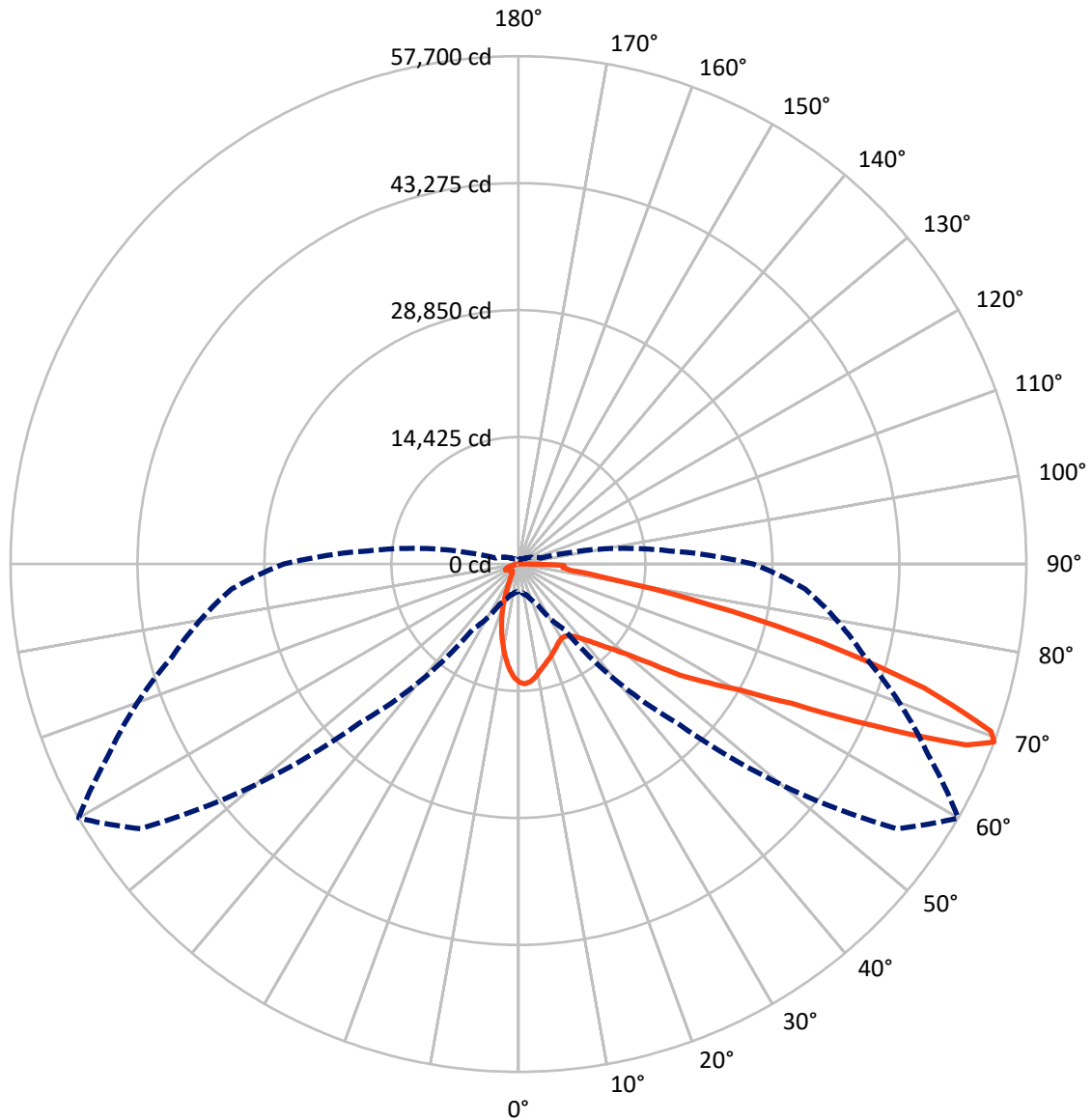


Based on 30 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - Non-Cutoff

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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	7503.7	0.0	7503.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	45239.3	0.0	45239.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	52743.0	0.0	52743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.4	2.2
10°-20°	2421.1	4.6
20°-30°	3085.0	5.8
30°-40°	4241.0	8.0
40°-50°	6881.5	13.0
50°-60°	11036.1	20.9
60°-70°	14688.2	27.8
70°-80°	7930.5	15.0
80°-90°	1323.3	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°	52743.0	100.0
0°-180°	52743.0	100.0

Coefficient of Utilization



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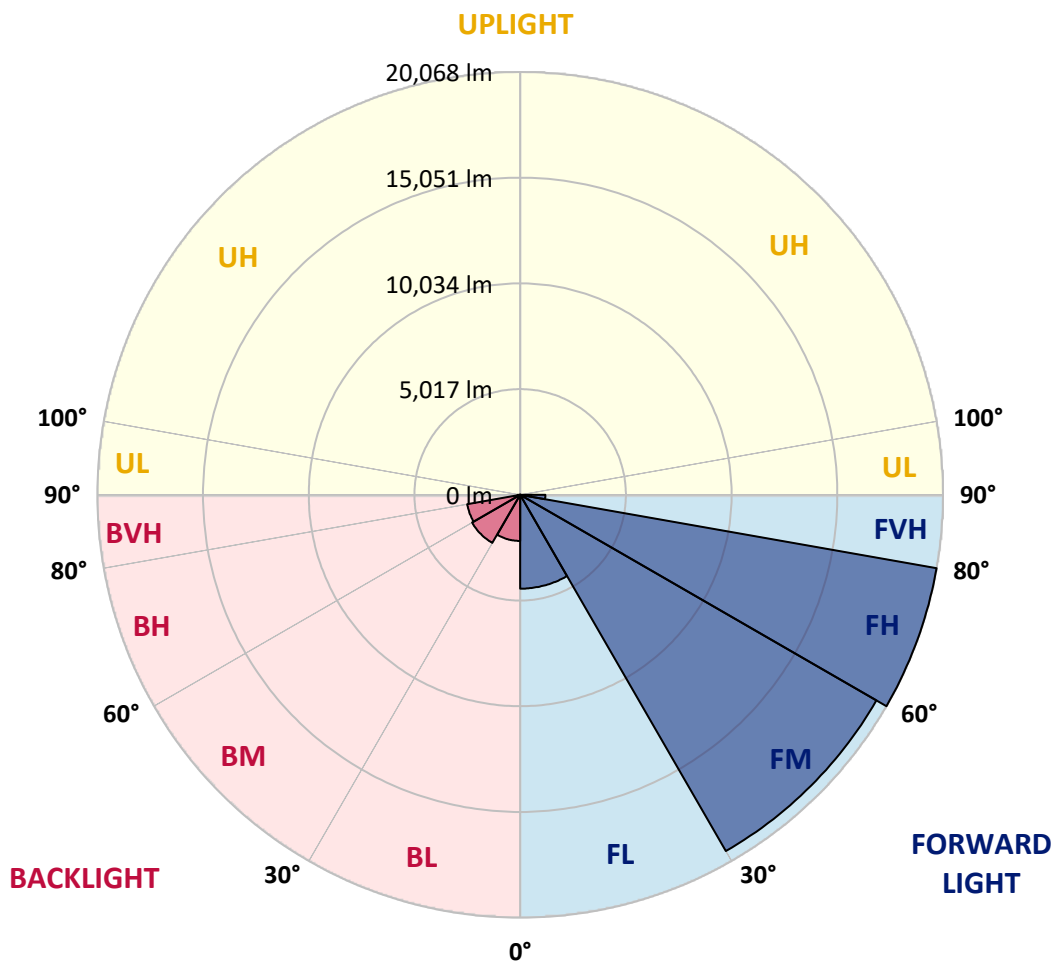
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4453.4	8.4			
FM (30°-60°)	19522.4	37.0			
FH (60°-80°)	20067.7	38.0			G5
FVH (80°-90°)	1195.8	2.3			G5
BL (0°-30°)	2189.1	4.2	B3/2500		
BM (30°-60°)	2636.2	5.0	B3/5000		
BH (60°-80°)	2551.0	4.8	B4/5000		G4/5000
BVH (80°-90°)	127.4	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7
2.5°	13714.9	13745.5	13732.7	13725.1	13748.0	13712.3	13638.4	13615.5	13579.8	13495.8	13353.1
5°	13200.2	13291.9	13286.8	13355.6	13470.3	13500.9	13467.7	13472.8	13406.6	13302.1	13065.2
7.5°	12311.0	12349.3	12369.6	12520.0	12728.9	12897.0	13039.7	13085.6	13055.0	12965.8	12660.1
10°	11393.8	11424.4	11472.8	11648.6	11913.6	12145.4	12415.5	12570.9	12637.2	12621.9	12280.5
12.5°	10606.5	10637.1	10700.8	10899.5	11215.5	11500.8	11893.2	12086.8	12244.8	12339.1	11972.2
15°	9900.8	9967.0	10028.2	10257.5	10611.6	10986.2	11429.5	11674.1	11918.7	12130.1	11699.6
17.5°	9350.5	9416.7	9452.4	9661.3	10038.4	10497.0	11016.7	11304.6	11610.4	11956.9	11429.5
20°	9032.0	9062.6	9047.3	9164.5	9503.3	9990.0	10606.5	10940.3	11309.7	11793.8	11159.4
22.5°	8942.8	8945.4	8889.3	8876.6	9095.7	9505.9	10168.3	10573.4	11026.9	11686.8	10927.6
25°	9159.4	9151.7	8998.9	8874.0	8897.0	9136.5	9745.4	10216.7	10790.0	11663.9	10749.2
27.5°	9640.9	9663.9	9437.1	9202.7	8970.9	8963.2	9424.4	9921.2	10596.4	11768.4	10672.8
30°	10316.1	10354.3	10112.3	9814.2	9378.5	9019.3	9299.5	9745.4	10476.6	11984.9	10660.1
32.5°	11055.0	11095.7	10912.3	10598.9	10028.2	9365.8	9386.1	9760.7	10471.5	12288.1	10746.7
35°	11842.2	11888.1	11793.8	11528.9	10894.5	10005.3	9717.4	10007.8	10637.1	12751.8	10978.5
37.5°	12721.2	12792.6	12818.1	12565.8	11888.1	10848.6	10260.0	10476.6	11011.7	13396.4	11404.0
40°	13987.5	14086.9	14079.2	13717.4	13027.0	11987.5	11098.3	11154.3	11595.1	14257.6	12084.3
42.5°	16413.0	16433.4	15799.0	15011.7	14280.5	13184.9	12086.8	12041.0	12400.2	15348.0	13085.6
45°	19498.4	19414.3	18002.9	16481.8	15590.1	14560.8	13373.5	13149.3	13421.9	16678.0	14339.1
47.5°	22059.0	21865.3	20081.9	17982.5	16976.1	16056.3	14884.3	14492.0	14642.3	18186.3	15959.5
50°	22948.2	22802.9	21325.2	19230.9	18288.2	17880.6	16744.2	16188.8	16229.6	19985.1	17857.6
52.5°	22757.1	22736.7	21750.7	20053.8	19516.3	19796.5	19378.7	18627.1	18229.6	21982.5	19906.1
55°	22306.1	22349.4	21992.7	21011.8	20920.1	21646.2	22820.8	22265.3	21029.7	23997.9	22023.3
57.5°	20739.2	20851.3	21636.0	22216.9	23180.0	24260.3	25592.8	25434.8	24043.7	26176.2	24540.5
60°	16708.6	16968.4	19072.9	21982.5	25506.2	28884.6	29480.8	29113.9	27152.1	28879.5	27865.4
62.5°	11707.2	11977.3	14479.2	19032.2	25124.0	34107.6	36431.2	34849.0	31615.8	32861.7	32168.7
65°	6267.6	6397.6	8308.4	13205.3	21210.5	35185.3	46589.3	44181.6	38683.5	37771.3	35850.3
67.5°	3457.4	3528.7	4259.9	6667.6	13584.9	30984.0	53060.8	54879.9	47516.7	41040.2	35180.2
69°	3126.2	3192.4	3671.4	5049.8	9090.6	25618.3	52428.9	57700.3	51389.4	40716.6	32703.7
70°	3057.4	3118.5	3549.1	4654.9	7358.1	21116.3	50311.7	56979.3	52311.7	39557.4	30543.2
72.5°	2751.6	2817.9	3235.7	4181.0	6288.0	10527.6	39852.9	48176.6	47493.8	34298.7	23167.3
75°	2565.6	2626.8	3335.1	4094.3	6020.5	6662.5	26273.1	35506.3	34912.7	23992.8	12491.9
77.5°	1098.1	1093.0	1546.5	3465.0	6109.7	6451.1	14117.4	22181.3	20237.3	10255.0	3587.3
80°	733.8	721.0	733.8	1019.1	5602.6	6486.7	7396.3	11258.8	8504.6	2614.1	1768.2
82.5°	631.9	621.7	644.6	621.7	1969.5	7403.9	6288.0	5987.4	4043.4	1485.4	876.4
85°	425.5	407.7	555.4	558.0	930.0	6578.5	7082.9	5057.4	3271.4	881.5	433.1
87.5°	203.8	198.7	323.6	394.9	545.2	2672.7	7946.6	5182.3	3299.4	451.0	206.4
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°	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7	13439.7
2.5°	13309.8	13205.3	13103.4	12981.1	12853.7	12711.0	12639.7	12568.4	12550.5	12530.1	12458.8
5°	12942.9	12795.1	12540.3	12260.1	11964.5	11676.6	11457.5	11319.9	11215.5	11162.0	11067.7
7.5°	12469.0	12252.4	11806.6	11322.5	10825.7	10372.1	9979.8	9732.6	9498.2	9388.7	9263.9
10°	12018.0	11694.5	11001.5	10288.1	9574.7	8889.3	8244.7	7788.7	7383.6	7156.8	6996.3
12.5°	11630.8	11187.5	10226.9	9261.3	8282.9	7307.1	6341.5	5582.3	4947.9	4614.1	4443.4
15°	11253.7	10718.7	9490.6	8265.1	7009.0	5681.6	4412.8	3551.7	3026.8	2817.9	2746.5
17.5°	10912.3	10226.9	8751.7	7261.3	5694.4	4089.2	2965.7	2491.8	2290.5	2221.7	2198.8
20°	10542.9	9730.1	7984.8	6211.6	4323.6	2858.6	2316.0	2107.0	2025.5	2005.1	1994.9
22.5°	10186.2	9240.9	7251.1	5088.0	3105.8	2206.4	1989.8	1903.2	1890.5	1908.3	1908.3
25°	9883.0	8802.7	6458.7	3913.4	2280.3	1857.4	1780.9	1760.5	1808.9	1875.2	1887.9
27.5°	9656.2	8443.5	5615.4	2889.2	1816.6	1615.3	1612.8	1645.9	1765.6	1893.0	1918.5
30°	9500.8	8102.0	4713.5	2084.1	1523.6	1421.7	1462.4	1533.8	1709.6	1890.5	1938.9
32.5°	9421.8	7849.8	3773.3	1612.8	1304.5	1248.4	1317.2	1403.8	1577.1	1745.3	1808.9
35°	9483.0	7663.8	2886.7	1345.2	1151.6	1108.3	1179.6	1263.7	1365.6	1437.0	1485.4
37.5°	9712.3	7589.9	2178.4	1205.1	1047.2	1006.4	1062.4	1110.8	1151.6	1172.0	1194.9
40°	10206.5	7668.9	1745.3	1133.8	988.6	937.6	960.5	978.4	1003.8	1024.2	1034.4
42.5°	10935.2	7905.9	1564.4	1105.8	958.0	884.1	879.0	886.6	919.8	958.0	965.6
45°	11954.3	8323.7	1551.6	1123.6	942.7	840.8	817.8	828.0	879.0	937.6	947.8
47.5°	13256.3	8960.7	1653.5	1177.1	955.4	817.8	779.6	792.4	856.1	935.0	947.8
50°	14833.4	9849.8	1824.2	1256.1	1011.5	822.9	766.9	774.5	840.8	927.4	940.1
52.5°	16695.8	11111.0	2010.2	1332.5	1070.1	856.1	777.1	759.2	820.4	896.8	912.1
55°	18767.2	12728.9	2201.3	1401.3	1100.7	896.8	797.5	738.9	782.2	845.9	858.6
57.5°	21309.9	14991.3	2532.5	1467.5	1121.0	924.9	817.8	718.5	733.8	779.6	789.8
60°	24752.0	18191.4	3116.0	1577.1	1166.9	935.0	815.3	700.6	685.4	710.8	715.9
62.5°	28876.9	21666.6	3602.6	1714.7	1243.3	942.7	800.0	687.9	644.6	644.6	649.7
65°	31325.4	22596.6	3332.5	1829.3	1307.0	935.0	782.2	675.2	614.0	586.0	588.5
67.5°	29248.9	19872.9	2856.1	1852.3	1304.5	899.4	754.2	652.2	583.4	540.1	537.6
69°	26647.6	17146.8	2642.1	1791.1	1243.3	853.5	718.5	626.8	560.5	514.7	512.1
70°	24550.7	15483.1	2502.0	1724.9	1177.1	820.4	690.5	603.8	542.7	499.4	494.3
72.5°	17850.0	10145.4	2137.6	1482.8	970.7	687.9	596.2	529.9	484.1	458.6	453.5
75°	8919.9	4838.3	1735.1	1202.6	744.0	550.3	489.2	443.3	420.4	415.3	412.7
77.5°	2930.0	2216.6	1240.8	896.8	552.9	430.6	394.9	361.8	356.7	372.0	366.9
80°	1610.2	1289.2	787.3	593.6	377.1	315.9	310.8	293.0	300.6	326.1	321.0
82.5°	820.4	670.1	486.6	356.7	254.8	226.8	247.1	236.9	247.1	270.1	267.5
85°	405.1	366.9	308.3	216.6	168.2	145.2	175.8	183.4	188.5	206.4	206.4
87.5°	234.4	216.6	163.1	101.9	84.1	76.4	101.9	99.4	117.2	127.4	124.8
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)