

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: P191108

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64768.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

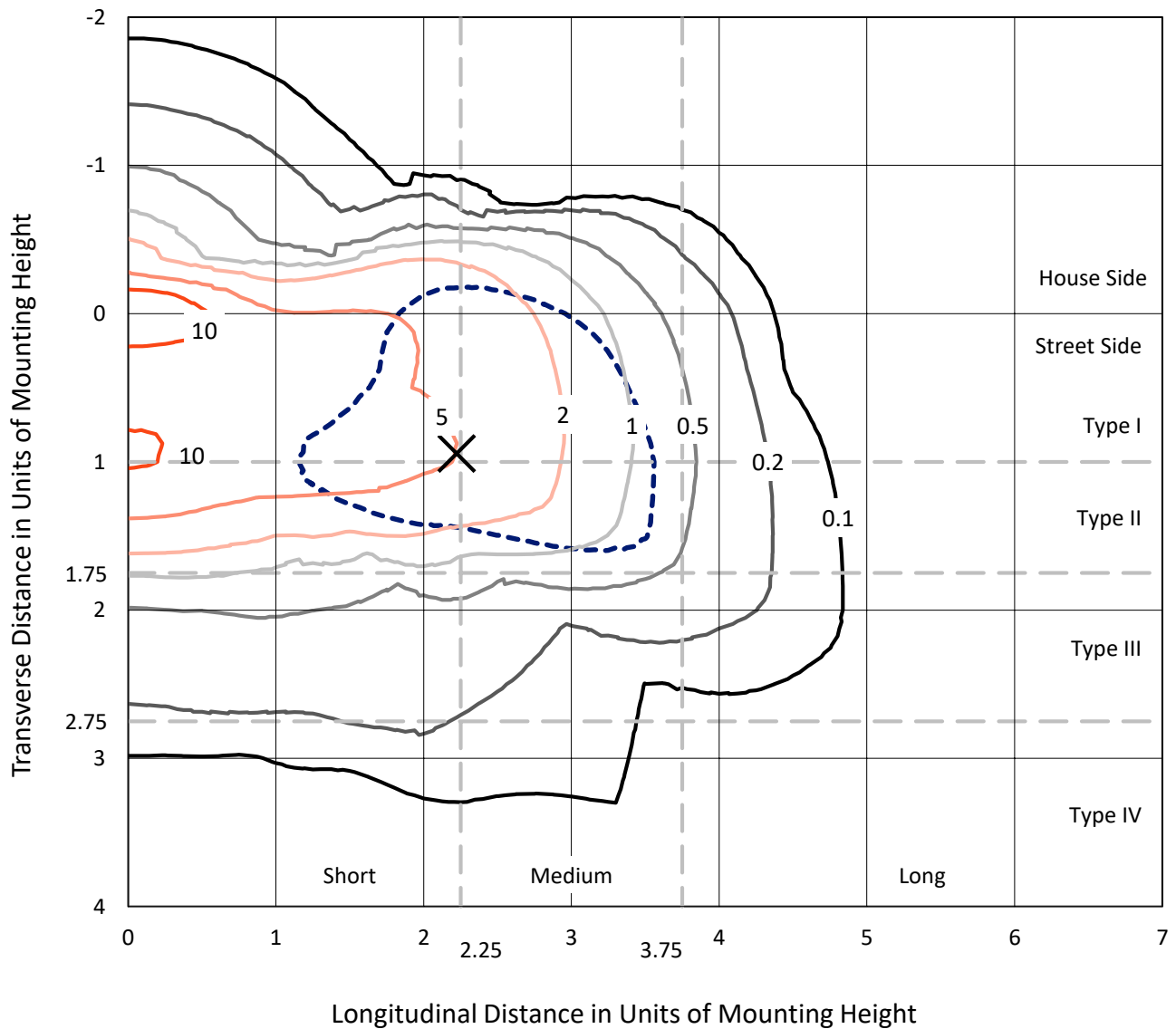
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191108
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200

Iso-Footcandle Lines of Horizontal Illumination

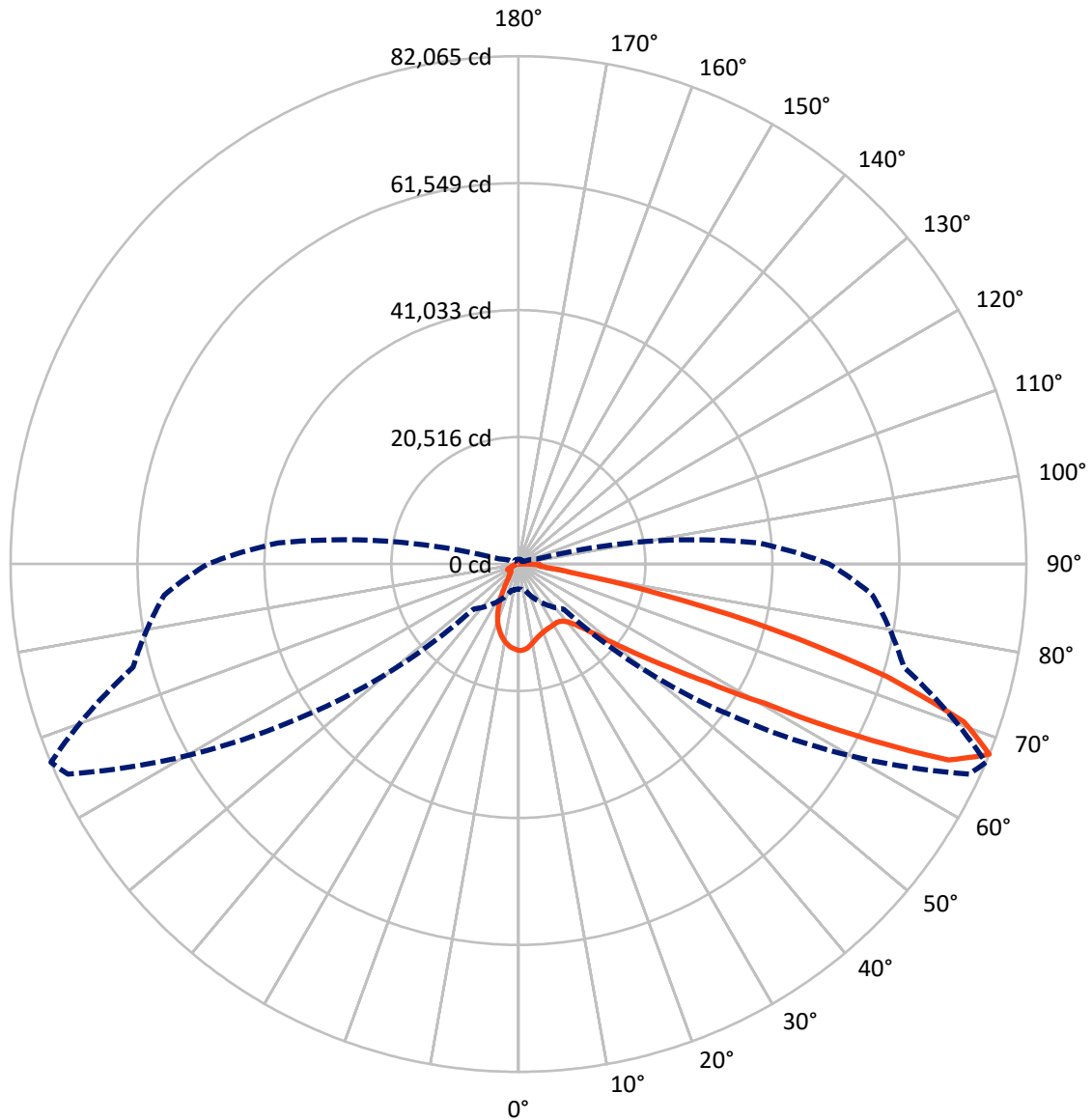
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191108
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191108

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10731.4	0.0	10731.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	54036.8	0.0	54036.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	64768.1	0.0	64768.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1191.9	1.8
10°-20°	2757.8	4.3
20°-30°	3738.3	5.8
30°-40°	5314.3	8.2
40°-50°	8891.1	13.7
50°-60°	14065.7	21.7
60°-70°	17918.2	27.7
70°-80°	9385.6	14.5
80°-90°	1505.3	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°	64768.1	100.0
0°-180°	64768.1	100.0

Coefficient of Utilization



REPORT NUMBER: P191108

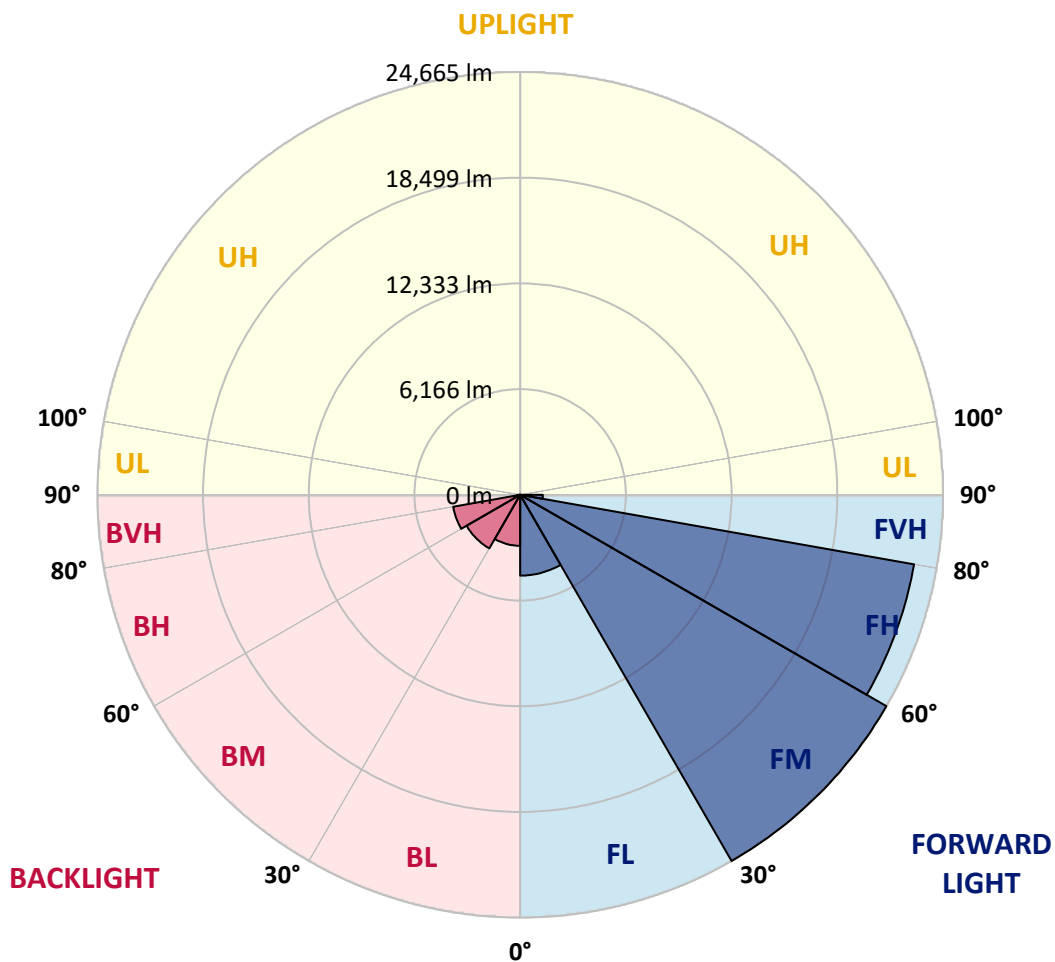
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4713.5	7.3			
FM	(30°-60°)	24665.0	38.1			
FH	(60°-80°)	23334.6	36.0			G5
FVH	(80°-90°)	1323.6	2.0			G5
BL	(0°-30°)	2974.4	4.6	B4/5000		
BM	(30°-60°)	3606.1	5.6	B3/5000		
BH	(60°-80°)	3969.2	6.1	B4/5000		G4/5000
BVH	(80°-90°)	181.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P191108

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3
2.5°	13395.4	13417.7	13488.0	13532.7	13733.9	13820.2	13880.9	13941.6	13951.2	13980.0	13951.2
5°	11990.1	12038.0	12168.9	12315.8	12705.6	13012.1	13334.8	13670.1	13730.8	13947.9	14008.7
7.5°	10901.0	10888.2	10996.7	11172.5	11571.7	11996.5	12561.8	13229.3	13360.2	13848.9	14085.3
10°	10105.6	10096.1	10211.1	10393.1	10773.2	11175.6	11814.4	12727.9	12913.1	13692.5	14158.8
12.5°	9517.9	9521.1	9636.1	9837.3	10223.8	10629.5	11277.8	12242.4	12478.8	13510.4	14235.4
15°	9128.3	9153.9	9246.5	9460.5	9837.3	10243.0	10878.6	11878.3	12143.3	13366.7	14321.6
17.5°	8997.4	9038.9	9070.8	9227.3	9549.9	9955.6	10578.3	11610.0	11891.1	13267.7	14398.3
20°	9118.7	9166.7	9105.9	9160.2	9364.7	9722.3	10342.0	11399.2	11686.7	13155.9	14407.9
22.5°	9639.4	9684.1	9505.2	9348.6	9335.9	9553.1	10147.2	11233.1	11530.2	13072.8	14411.1
25°	10556.0	10584.8	10284.5	9920.4	9565.9	9492.4	10009.9	11118.1	11434.3	12999.4	14350.4
27.5°	11680.3	11702.7	11357.7	10821.1	10108.8	9636.1	9961.9	11051.0	11380.0	12935.5	14248.2
30°	13047.2	13152.7	12689.6	12012.4	10974.4	10060.9	10057.8	11016.0	11319.4	12826.9	14047.0
32.5°	14446.2	14490.9	14171.6	13484.8	12140.2	10808.3	10326.1	11041.5	11303.4	12695.9	13791.4
35°	15864.3	15921.8	15714.3	15161.7	13733.9	11903.9	10849.8	11191.6	11402.4	12651.2	13612.6
37.5°	17700.8	17777.6	17490.1	16851.3	15672.7	13389.0	11721.8	11568.4	11705.8	12779.0	13558.3
40°	20604.2	20569.0	19729.0	18777.2	17793.5	15289.4	12967.4	12207.3	12287.1	13191.1	13724.4
42.5°	23983.4	23897.2	22450.3	20955.5	20125.0	17589.0	14615.5	13315.5	13299.6	14002.3	14308.9
45°	26679.1	26608.8	25305.7	23462.7	22798.4	20208.1	16745.9	14966.8	14848.6	15289.4	15388.5
47.5°	28138.7	28141.9	27391.2	25886.9	25870.9	23536.2	19483.1	17355.9	17151.5	17359.1	17253.7
50°	27627.7	27694.8	27614.9	27135.8	28675.3	27899.1	23057.1	20687.2	20275.2	20479.6	20074.0
52.5°	25155.5	25241.7	25714.4	26449.1	29853.8	33172.4	28307.9	24826.5	24347.5	24274.0	23823.7
55°	20773.5	20878.8	21843.4	23839.7	28873.3	36714.4	36593.1	30103.0	29339.6	28646.5	28454.9
57.5°	14318.4	14494.1	16046.4	19010.4	25701.7	37784.4	46459.2	37624.7	36072.4	33651.4	33696.1
60°	8071.1	8275.5	10105.6	12798.1	19301.0	36621.8	53965.0	49017.6	45740.5	39512.3	39844.5
62.5°	5132.7	5353.1	6742.5	8892.0	11581.2	30361.7	57040.8	64856.3	60694.6	46737.0	47062.8
65°	4155.3	4251.2	4905.9	7339.7	8409.7	18291.7	54706.0	77903.5	76351.3	55906.8	54386.5
67.5°	4056.3	4088.2	4426.8	6161.1	8064.7	10281.3	43635.7	80343.8	82065.3	64469.8	57436.7
70°	4008.4	4120.2	4988.9	5880.0	7723.0	8671.6	26222.3	73655.6	76373.7	66708.8	53377.3
72.5°	1945.1	1938.7	2510.4	5317.9	8700.3	8994.2	13472.1	59595.9	62323.5	57794.5	43862.5
75°	1568.2	1434.1	1370.2	1948.3	8365.0	9288.0	8585.3	41007.1	42980.9	38749.0	26963.3
77.5°	1488.4	1328.7	1216.9	1220.1	3535.7	9850.1	7272.7	22696.2	23271.1	17502.8	7387.6
80°	1232.9	1086.0	1006.1	1133.8	1711.9	9380.7	7863.5	10271.8	9425.4	4299.1	2459.4
82.5°	856.0	779.3	757.0	951.8	1370.2	6685.0	9144.3	5519.1	4628.0	2152.7	1517.1
85°	546.2	466.4	517.4	693.0	1066.7	3085.3	9418.9	4302.2	3420.7	1367.0	856.0
87.5°	252.4	204.4	255.5	383.3	696.3	1063.6	8962.2	4832.4	3522.9	721.8	539.8
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: P191108
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3	13970.3
2.5°	13976.7	13916.0	13868.1	13778.7	13679.7	13583.9	13497.6	13389.0	13357.1	13328.3	13373.0
5°	14021.4	13960.7	13785.1	13510.4	13207.0	12922.7	12638.5	12395.7	12245.6	12162.6	12210.5
7.5°	14088.5	14002.3	13638.2	13133.6	12587.3	12089.1	11574.9	11162.8	10859.4	10715.7	10757.2
10°	14149.1	13983.1	13389.0	12632.1	11833.6	11092.6	10281.3	9610.6	9112.3	8850.5	8914.3
12.5°	14174.7	13909.7	13040.9	12006.1	10910.5	9824.6	8630.0	7627.1	6911.7	6649.8	6595.5
15°	14200.3	13826.6	12657.6	11293.8	9795.9	8259.5	6586.0	5385.0	4790.9	4660.0	4631.2
17.5°	14206.6	13682.9	12223.2	10520.8	8489.5	6397.4	4503.4	3740.1	3743.3	3954.1	3979.7
20°	14139.6	13468.9	11696.2	9559.5	6924.5	4423.6	3091.8	2960.8	3443.0	3970.1	4034.0
22.5°	13986.3	13184.6	11099.0	8438.4	5132.7	2912.9	2392.3	2536.0	3158.8	3803.9	3877.5
25°	13791.4	12839.7	10393.1	7138.5	3398.3	2082.4	2005.8	2181.4	2603.1	3034.3	3075.8
27.5°	13526.4	12430.8	9601.0	5650.1	2207.0	1715.2	1766.2	1884.5	2056.9	2248.5	2267.7
30°	13184.6	11942.1	8754.6	4120.2	1667.2	1542.7	1616.2	1680.0	1753.4	1862.1	1871.7
32.5°	12791.8	11472.7	7885.8	2845.8	1478.8	1453.2	1510.7	1542.7	1600.2	1667.2	1673.6
35°	12462.8	11025.5	6985.1	2012.1	1399.0	1386.2	1424.5	1437.2	1491.6	1565.0	1571.5
37.5°	12274.4	10661.4	6055.8	1622.5	1344.7	1325.4	1347.8	1347.8	1424.5	1533.1	1549.1
40°	12287.1	10460.2	5126.3	1466.0	1300.0	1274.4	1277.6	1277.6	1376.6	1494.7	1504.4
42.5°	12635.3	10511.3	4302.2	1405.3	1264.8	1236.0	1220.1	1229.7	1312.8	1389.4	1395.7
45°	13452.9	10872.2	3529.3	1367.0	1229.7	1220.1	1185.0	1181.7	1213.7	1248.8	1248.8
47.5°	14794.3	11584.4	3005.5	1341.5	1200.9	1197.8	1156.2	1114.7	1111.5	1124.2	1124.2
50°	16975.9	12810.9	2654.1	1312.8	1181.7	1156.2	1108.3	1044.4	1022.0	1031.6	1031.6
52.5°	20246.4	14998.8	2520.0	1274.4	1140.3	1098.8	1044.4	980.5	961.4	964.5	964.5
55°	24535.9	18358.8	2500.9	1229.7	1095.5	1028.5	983.8	935.8	913.5	919.8	919.8
57.5°	29777.2	23006.0	2842.6	1159.4	1034.8	958.2	932.6	900.7	884.8	894.3	891.1
60°	36149.1	29087.3	4216.0	1086.0	974.2	894.3	894.3	868.8	856.0	865.5	862.3
62.5°	43488.8	36072.4	5928.0	1031.6	910.3	843.2	856.0	843.2	830.4	836.8	833.6
65°	49998.1	40623.8	5551.0	990.1	846.4	795.2	817.6	811.3	801.7	808.0	804.9
67.5°	50186.5	38937.4	3117.3	945.4	785.7	747.4	779.3	776.1	769.8	776.1	772.9
70°	44788.8	32878.5	1756.7	862.3	721.8	689.9	734.6	731.4	725.1	737.8	734.6
72.5°	35884.0	23858.8	1284.0	760.2	658.0	629.2	680.3	677.1	677.1	696.3	686.7
75°	20648.9	12277.6	1025.3	651.5	590.9	568.6	613.3	616.4	622.8	648.3	629.2
77.5°	5886.5	3826.3	836.8	552.6	507.8	498.3	543.0	549.3	552.6	581.3	555.8
80°	2187.9	1763.1	689.9	463.1	415.2	418.4	459.9	469.5	472.7	501.5	469.5
82.5°	1395.7	1162.6	558.9	357.7	325.8	322.6	373.7	386.5	386.5	389.6	370.5
85°	814.5	696.3	421.6	258.7	230.0	220.3	277.8	300.2	290.6	284.3	271.5
87.5°	546.2	479.0	258.7	143.7	124.6	118.2	162.9	178.8	172.5	162.9	153.3
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)