

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: P192163

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-T2-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23588 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

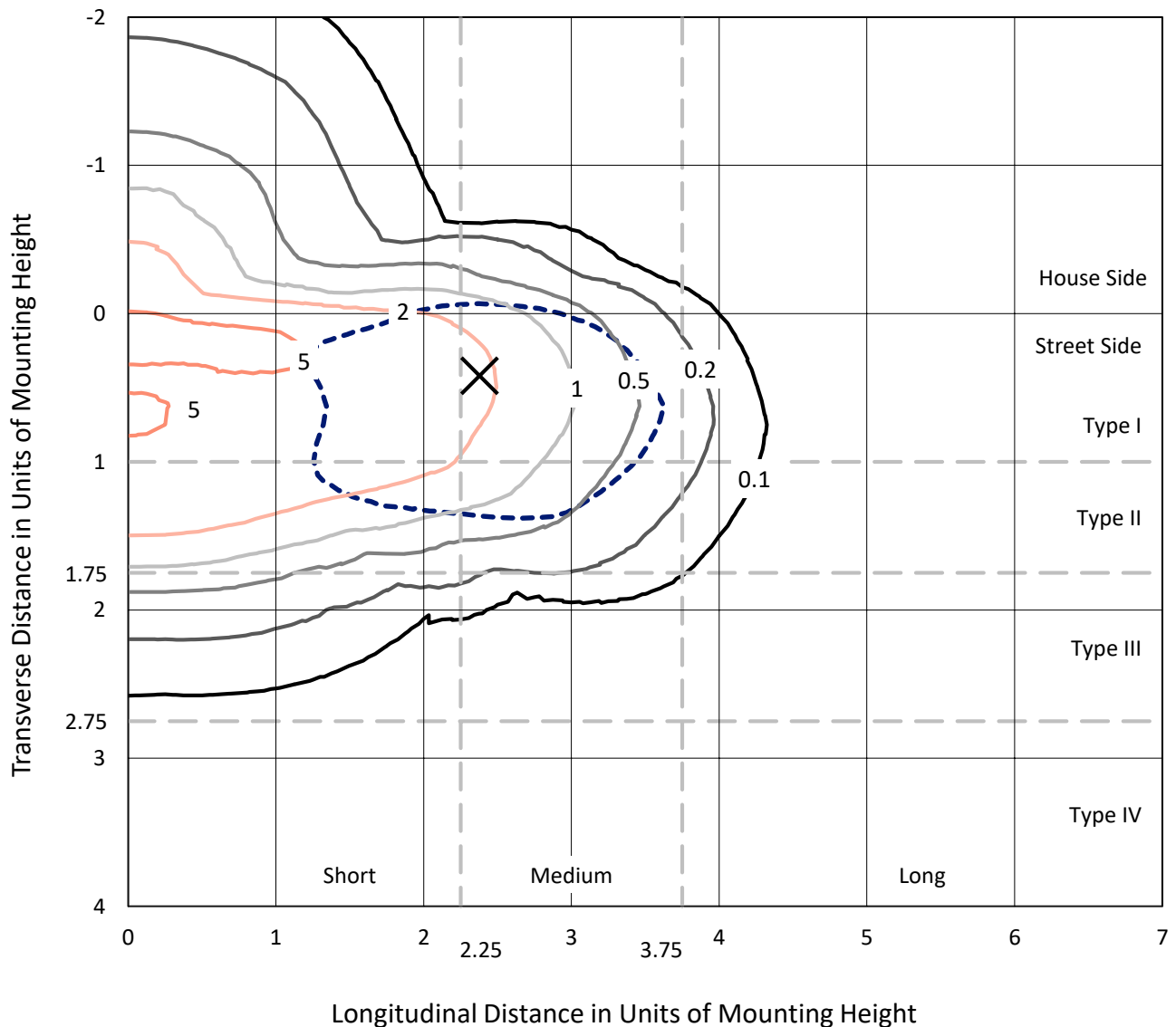
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

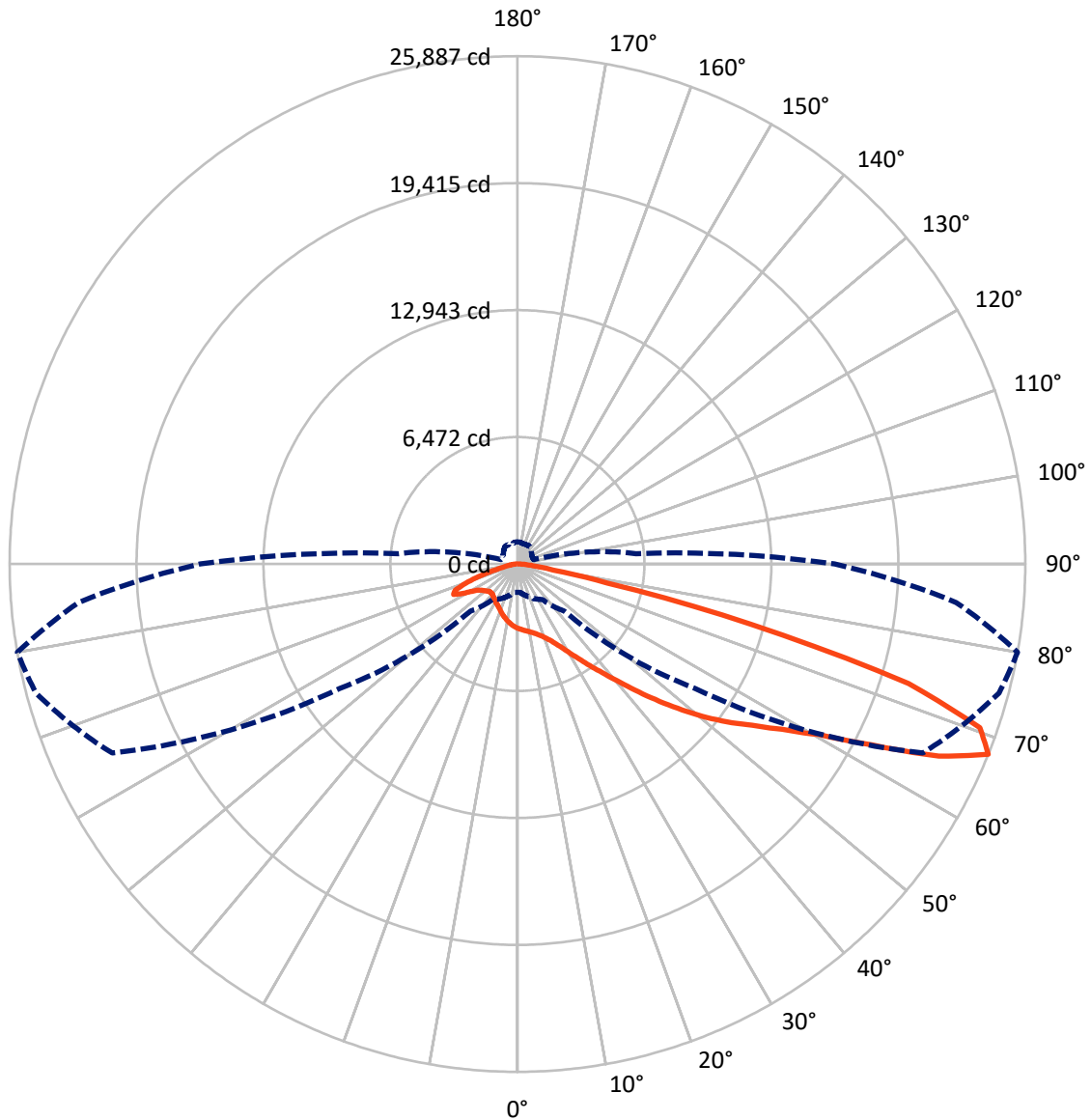
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4344.0	0.0	4344.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	19244.0	0.0	19244.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	23588.0	0.0	23588.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.3	1.3
10°-20°	870.8	3.7
20°-30°	1441.4	6.1
30°-40°	2357.8	10.0
40°-50°	3806.8	16.1
50°-60°	5496.0	23.3
60°-70°	6065.1	25.7
70°-80°	2795.6	11.9
80°-90°	452.2	1.9
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°	23588.0	100.0
0°-180°	23588.0	100.0



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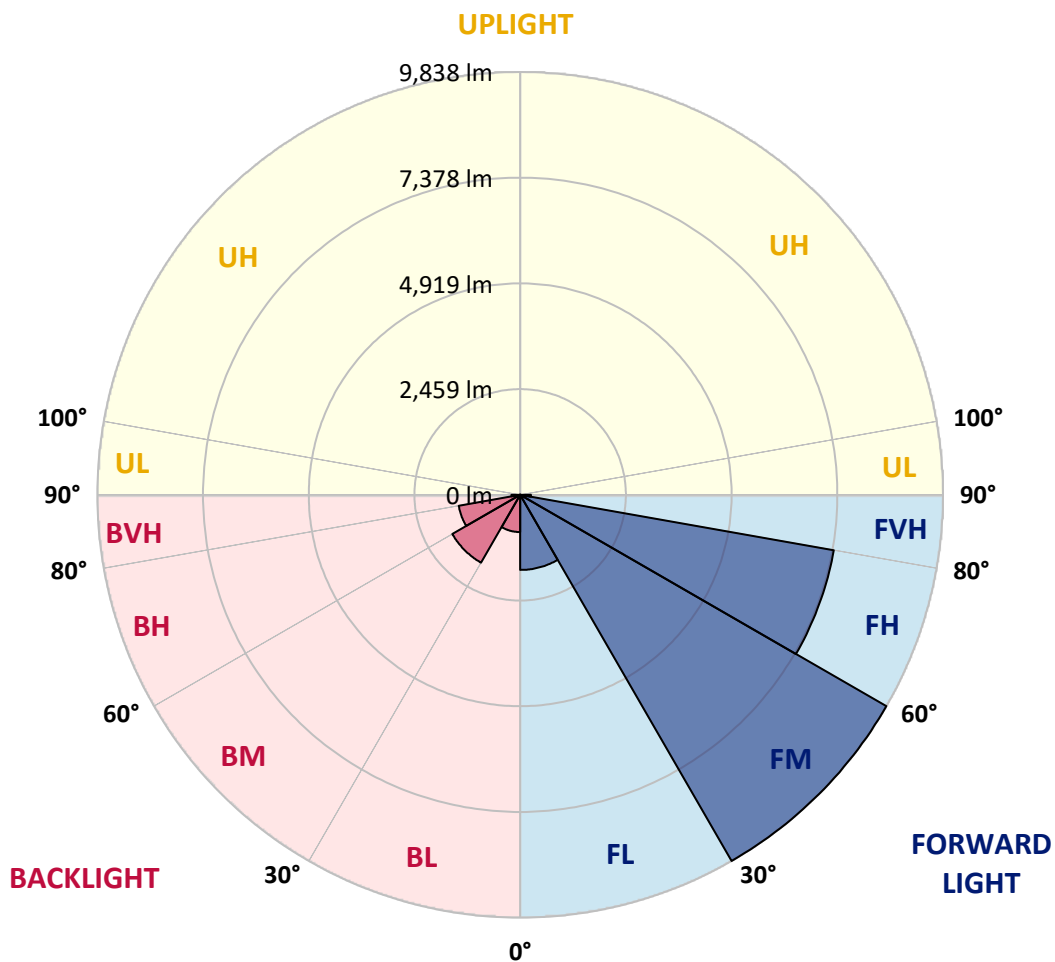
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.8	7.4			
FM (30°-60°)	9838.0	41.7			
FH (60°-80°)	7409.6	31.4			G3/7500
FVH (80°-90°)	248.6	1.1			G3/500
BL (0°-30°)	866.7	3.7	B2/1000		
BM (30°-60°)	1822.6	7.7	B2/2500		
BH (60°-80°)	1451.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	203.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1
2.5°	3584.8	3563.9	3567.4	3561.6	3544.1	3514.0	3481.4	3422.2	3360.7	3328.2	3302.6
5°	3884.4	3878.6	3870.5	3851.9	3807.8	3745.0	3667.2	3562.7	3450.1	3390.9	3334.0
7.5°	4108.5	4105.0	4094.6	4083.0	4040.0	3964.5	3847.2	3698.6	3534.9	3453.6	3365.3
10°	4127.1	4132.9	4141.0	4172.4	4178.2	4137.5	4017.9	3837.9	3623.1	3518.6	3406.0
12.5°	3969.2	3981.9	4013.3	4093.4	4178.2	4228.1	4166.6	3984.3	3726.5	3599.9	3457.1
15°	3760.1	3767.1	3805.4	3915.7	4067.9	4222.3	4280.4	4145.7	3860.0	3704.4	3533.7
17.5°	3670.7	3674.2	3700.9	3774.1	3915.7	4136.4	4344.3	4321.0	4023.7	3834.5	3627.8
20°	3625.4	3633.6	3671.9	3743.9	3833.3	4026.1	4353.5	4510.3	4218.8	3997.0	3746.2
22.5°	3754.3	3750.9	3764.8	3800.8	3876.3	3992.4	4346.6	4705.4	4467.3	4206.1	3900.7
25°	4055.1	4067.9	4043.5	4002.8	4027.2	4108.5	4383.7	4916.8	4778.6	4474.3	4102.7
27.5°	4483.6	4470.8	4434.8	4339.6	4289.7	4324.5	4506.8	5144.4	5165.3	4827.3	4369.8
30°	4910.9	4900.5	4865.7	4749.5	4647.3	4618.3	4746.0	5405.6	5626.3	5251.2	4697.3
32.5°	5354.5	5342.9	5310.4	5194.3	5071.2	5003.8	5086.3	5707.6	6169.7	5757.5	5082.8
35°	5901.5	5879.4	5810.9	5649.5	5528.7	5476.5	5514.8	6087.3	6796.8	6356.7	5550.8
37.5°	6415.9	6449.6	6379.9	6157.0	6000.2	5981.6	6024.6	6550.6	7472.7	7026.7	6088.5
40°	6932.7	6938.5	6875.8	6693.5	6532.1	6501.9	6609.9	7112.7	8270.5	7828.0	6742.2
42.5°	7466.9	7478.5	7372.8	7204.4	7086.0	7091.8	7214.9	7771.1	9185.5	8772.1	7494.7
45°	8099.7	8117.2	8001.0	7780.4	7672.4	7889.6	7838.5	8509.7	10188.8	9845.1	8358.7
47.5°	8761.7	8788.4	8700.1	8493.4	8358.7	8657.1	8462.1	9328.4	11268.8	10995.9	9307.5
50°	9122.8	9161.1	9247.1	9232.0	9202.9	9153.0	9157.7	10206.3	12382.5	12194.3	10282.9
52.5°	8928.9	8927.7	9241.3	9622.2	10028.6	10058.8	10005.4	11131.8	13422.9	13366.0	11201.5
55°	8041.7	8102.1	8577.0	9314.4	10424.6	11117.8	11275.8	12192.0	14444.8	14511.0	12133.9
57.5°	6564.6	6614.5	7255.5	8283.2	9890.4	11747.2	13082.7	13733.0	15587.5	15896.4	13375.3
60°	4452.2	4512.6	5192.0	6426.4	8452.8	11396.5	14802.5	16482.8	16955.5	17658.0	15117.2
62.5°	2616.3	2670.9	3224.8	4053.9	5951.4	9767.3	15557.3	20395.1	19128.2	20316.1	17774.2
65°	1801.1	1838.3	2107.7	2523.4	3419.9	6578.5	14621.4	23096.2	22471.4	23609.5	20855.0
67.5°	1449.2	1444.6	1658.3	1941.6	2201.7	3392.0	11056.3	22790.8	25411.7	25886.7	22454.0
70°	1193.8	1189.1	1334.3	1568.9	1759.3	1910.3	6022.3	19232.7	24812.5	25005.3	20981.5
72.5°	998.7	1003.3	1096.2	1270.4	1443.4	1438.8	2646.5	13529.8	19519.5	20852.6	16725.5
75°	843.1	845.4	906.9	1030.0	1171.7	1158.9	1435.3	7329.8	11346.6	12274.5	9271.5
77.5°	717.7	720.0	759.5	828.0	929.0	924.4	1047.5	3166.7	4733.3	4675.2	3171.4
80°	639.9	639.9	658.4	671.2	726.9	706.0	776.9	1521.2	2000.8	1847.6	1265.8
82.5°	501.7	504.0	617.8	613.1	572.5	545.8	545.8	896.5	1060.2	980.1	740.9
85°	282.2	281.0	398.3	480.8	504.0	384.4	380.9	501.7	577.1	508.6	358.8
87.5°	120.8	123.1	184.6	213.7	285.7	239.2	235.7	259.0	293.8	254.3	166.1
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°	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1	3277.1
2.5°	3278.2	3248.0	3181.8	3099.4	3025.1	2976.3	2932.2	2868.3	2871.8	2827.7	2795.1
5°	3275.9	3213.2	3059.9	2877.6	2702.2	2575.7	2480.4	2394.5	2373.6	2333.0	2308.6
7.5°	3278.2	3176.0	2918.2	2626.8	2409.6	2249.3	2168.1	2122.8	2112.3	2098.4	2099.5
10°	3286.3	3142.4	2762.6	2392.2	2164.6	2058.9	2039.2	2053.1	2069.4	2074.0	2075.2
12.5°	3304.9	3112.2	2591.9	2183.2	2011.3	1978.8	2012.5	2060.1	2091.4	2106.5	2105.4
15°	3346.7	3088.9	2428.2	2019.4	1926.5	1943.9	2006.6	2074.0	2119.3	2140.2	2141.4
17.5°	3392.0	3055.3	2259.8	1894.0	1863.8	1907.9	1985.7	2064.7	2120.5	2143.7	2148.3
20°	3451.2	3013.5	2083.3	1799.9	1804.6	1854.5	1927.7	2006.6	2068.2	2087.9	2097.2
22.5°	3529.1	2968.2	1928.8	1723.3	1737.2	1775.6	1832.5	1901.0	1954.4	1963.7	1971.8
25°	3633.6	2919.4	1805.8	1653.6	1659.4	1681.5	1719.8	1760.5	1797.6	1787.2	1795.3
27.5°	3774.1	2877.6	1714.0	1589.8	1579.3	1584.0	1603.7	1616.5	1636.2	1607.2	1610.7
30°	3939.0	2832.3	1643.2	1534.0	1505.0	1496.9	1501.5	1508.5	1523.6	1484.1	1478.3
32.5°	4130.6	2777.7	1577.0	1485.2	1444.6	1428.3	1430.7	1449.2	1507.3	1482.9	1470.1
35°	4353.5	2716.2	1507.3	1431.8	1404.0	1380.7	1378.4	1436.5	1609.5	1594.4	1582.8
37.5°	4614.8	2654.6	1437.6	1371.4	1373.8	1348.2	1340.1	1406.3	1629.2	1570.0	1561.9
40°	4946.9	2622.1	1378.4	1307.6	1336.6	1333.1	1316.9	1350.5	1499.2	1391.2	1377.2
42.5°	5358.0	2626.8	1334.3	1239.1	1292.5	1329.6	1304.1	1305.2	1358.7	1277.4	1264.6
45°	5865.5	2681.3	1302.9	1184.5	1242.5	1326.2	1299.4	1280.9	1285.5	1242.5	1235.6
47.5°	6457.7	2794.0	1280.9	1139.2	1194.9	1313.4	1298.3	1273.9	1263.4	1240.2	1234.4
50°	7116.2	2957.7	1264.6	1096.2	1152.0	1292.5	1299.4	1266.9	1255.3	1246.0	1242.5
52.5°	7763.0	3144.7	1240.2	1059.1	1118.3	1266.9	1302.9	1260.0	1247.2	1240.2	1236.7
55°	8484.1	3378.1	1203.1	1027.7	1090.4	1234.4	1302.9	1249.5	1235.6	1236.7	1235.6
57.5°	9458.4	3755.5	1158.9	1001.0	1056.7	1194.9	1280.9	1237.9	1220.5	1221.6	1222.8
60°	10980.8	4420.9	1105.5	974.3	1014.9	1148.5	1250.7	1212.3	1194.9	1199.6	1200.7
62.5°	13219.7	5397.5	1035.8	934.8	970.8	1098.5	1208.9	1179.8	1162.4	1174.0	1174.0
65°	15546.9	6259.2	949.9	884.9	924.4	1044.0	1156.6	1139.2	1121.8	1148.5	1147.3
67.5°	16172.8	6066.4	864.0	830.3	877.9	983.6	1093.9	1084.6	1075.3	1121.8	1119.4
70°	14367.0	4870.3	785.0	774.6	826.8	918.6	1026.5	1026.5	1020.7	1055.6	1047.5
72.5°	10946.0	3453.6	709.5	715.3	768.8	847.7	953.4	961.5	952.2	969.6	962.7
75°	5859.7	1976.5	634.0	650.3	696.8	775.7	872.1	880.2	874.4	873.3	876.7
77.5°	1947.4	966.2	555.1	580.6	621.3	701.4	787.3	800.1	786.2	783.8	782.7
80°	867.5	607.3	468.0	501.7	537.7	616.6	697.9	708.4	693.3	714.2	687.5
82.5°	557.4	399.5	375.1	412.2	447.1	531.9	608.5	610.8	596.9	693.3	591.1
85°	270.6	247.3	282.2	315.9	346.1	418.1	504.0	505.1	470.3	428.5	413.4
87.5°	134.7	144.0	188.1	218.3	233.4	286.8	367.0	360.0	344.9	313.5	289.2
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)