

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: P191354

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191354  
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-06-LED-E1-T2-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23547.3 lumens  
Efficiency: N/A  
Efficacy: 122.0 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

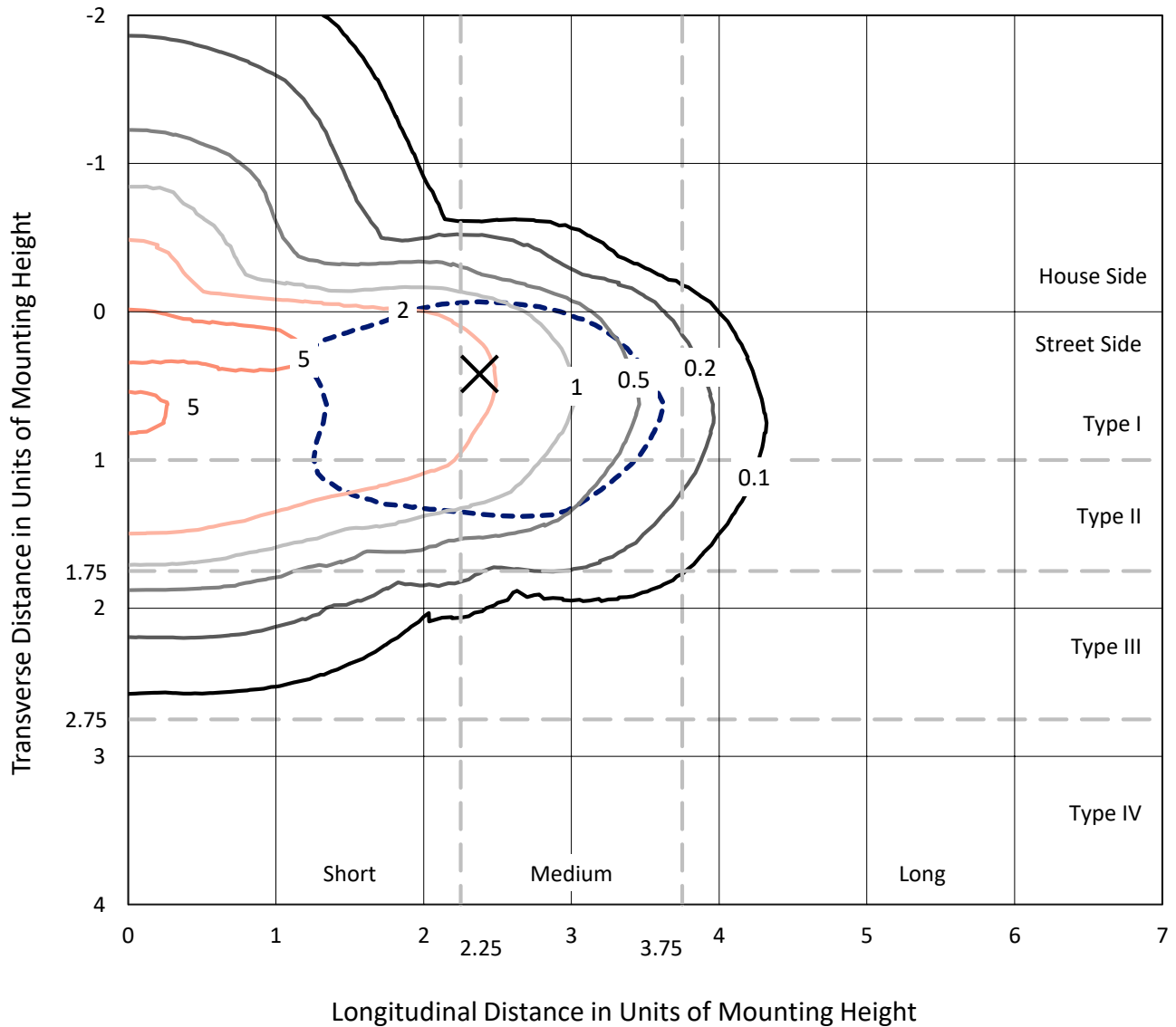
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

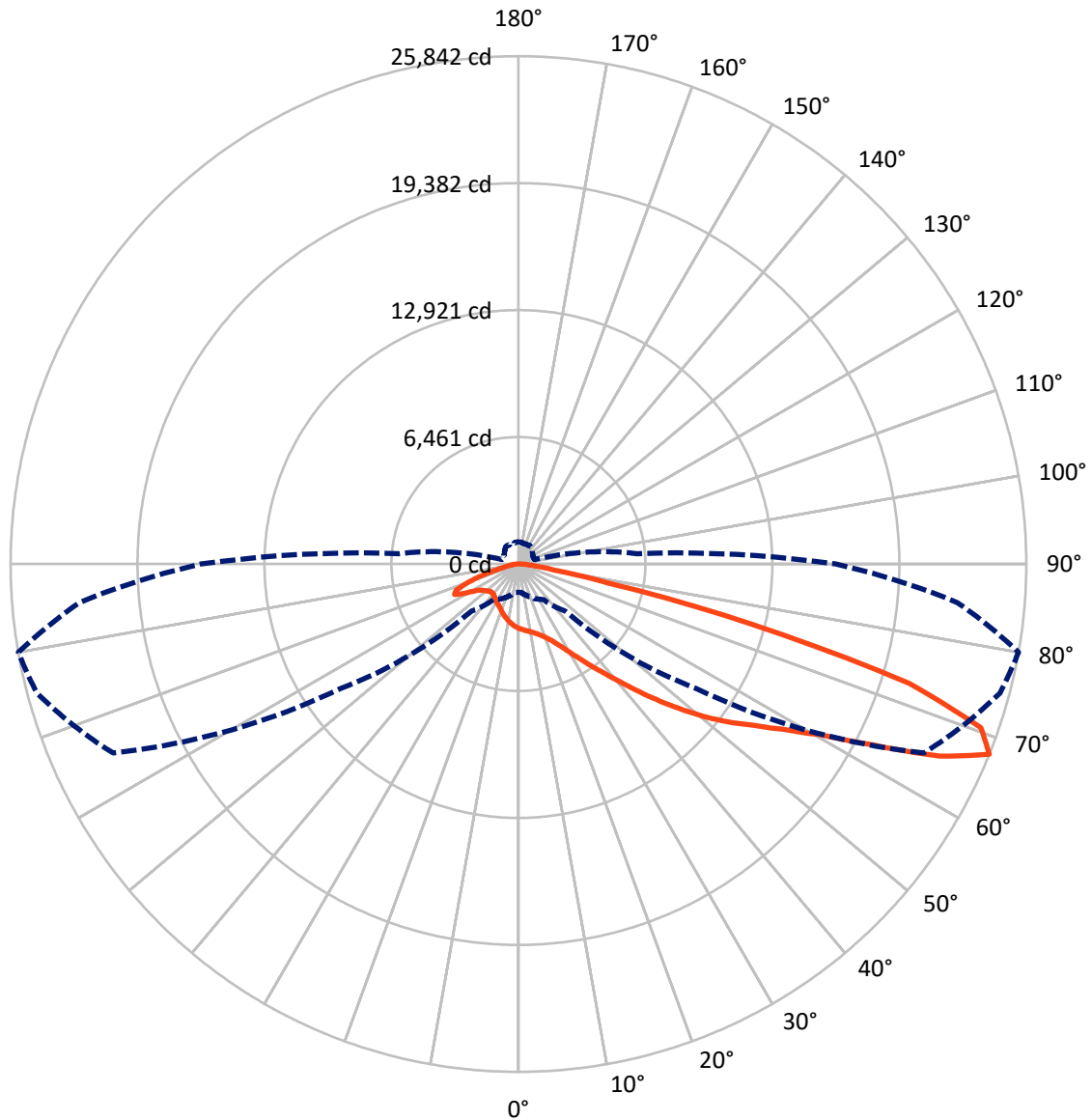
✕ Max cd  
 - - - 1/2 Max cd



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	4336.5	0.0	4336.5
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	19210.8	0.0	19210.8
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	23547.3	0.0	23547.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.8	1.3
10°-20°	869.3	3.7
20°-30°	1438.9	6.1
30°-40°	2353.7	10.0
40°-50°	3800.3	16.1
50°-60°	5486.5	23.3
60°-70°	6054.7	25.7
70°-80°	2790.8	11.9
80°-90°	451.4	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°	23547.3	100.0
0°-180°	23547.3	100.0



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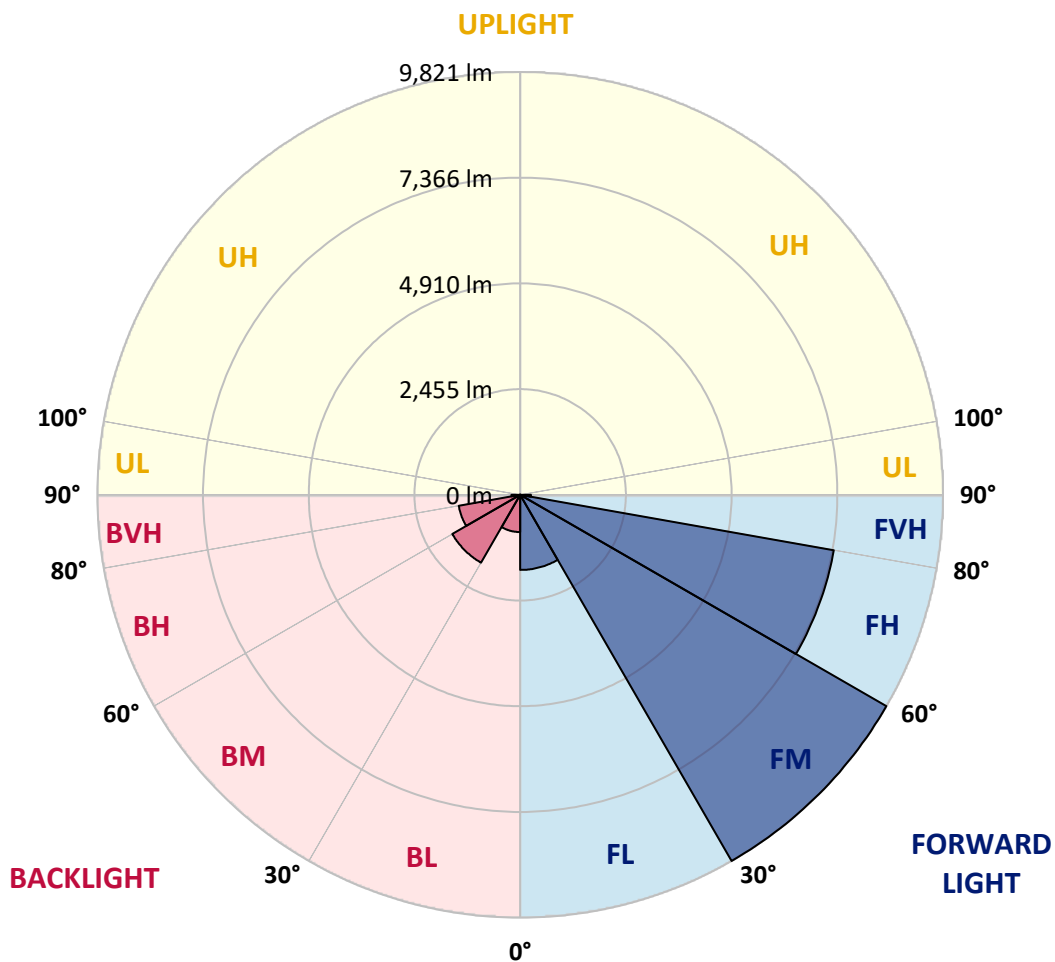
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.8	7.4			
FM (30°-60°)	9821.0	41.7			
FH (60°-80°)	7396.8	31.4			G3/7500
FVH (80°-90°)	248.2	1.1			G3/500
BL (0°-30°)	865.2	3.7	B2/1000		
BM (30°-60°)	1819.5	7.7	B2/2500		
BH (60°-80°)	1448.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	203.2	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°	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4
2.5°	3578.6	3557.7	3561.2	3555.5	3538.1	3507.9	3475.5	3416.3	3354.9	3322.4	3296.9
5°	3877.7	3871.9	3863.8	3845.3	3801.2	3738.6	3660.9	3556.6	3444.2	3385.0	3328.2
7.5°	4101.4	4097.9	4087.5	4075.9	4033.0	3957.7	3840.6	3692.2	3528.8	3447.7	3359.5
10°	4119.9	4125.8	4133.8	4165.1	4171.0	4130.4	4011.0	3831.4	3616.8	3512.5	3400.1
12.5°	3962.3	3975.1	4006.4	4086.4	4171.0	4220.8	4159.4	3977.4	3720.1	3593.6	3451.1
15°	3753.6	3760.6	3798.8	3909.0	4060.8	4215.1	4273.0	4138.6	3853.4	3698.0	3527.6
17.5°	3664.4	3667.9	3694.5	3767.5	3909.0	4129.2	4336.8	4313.6	4016.8	3827.9	3621.5
20°	3619.2	3627.3	3665.5	3737.5	3826.7	4019.1	4346.0	4502.5	4211.6	3990.1	3739.7
22.5°	3747.9	3744.4	3758.3	3794.2	3869.6	3985.5	4339.1	4697.3	4459.7	4198.8	3894.0
25°	4048.1	4060.8	4036.5	3996.0	4020.3	4101.4	4376.2	4908.2	4770.3	4466.6	4095.6
27.5°	4475.8	4463.1	4427.2	4332.1	4282.3	4317.1	4499.0	5135.5	5156.4	4819.0	4362.3
30°	4902.5	4892.1	4857.3	4741.4	4639.3	4610.3	4737.9	5396.3	5616.6	5242.1	4689.2
32.5°	5345.3	5333.7	5301.2	5185.3	5062.5	4995.2	5077.5	5697.7	6159.1	5747.6	5074.0
35°	5891.3	5869.3	5800.8	5639.7	5519.2	5467.1	5505.3	6076.8	6785.1	6345.8	5541.2
37.5°	6404.9	6438.5	6368.9	6146.3	5989.9	5971.3	6014.2	6539.3	7459.8	7014.6	6078.0
40°	6920.8	6926.5	6863.9	6681.9	6520.8	6490.6	6598.4	7100.4	8256.1	7814.5	6730.6
42.5°	7453.9	7465.6	7360.1	7192.0	7073.7	7079.5	7202.4	7757.8	9169.6	8757.0	7481.8
45°	8085.8	8103.2	7987.2	7767.0	7659.1	7875.9	7825.0	8495.0	10171.3	9828.1	8344.3
47.5°	8746.5	8773.2	8685.1	8478.7	8344.3	8642.2	8447.4	9312.2	11249.4	10977.0	9291.4
50°	9107.0	9145.3	9231.1	9216.1	9187.0	9137.2	9141.8	10188.7	12361.1	12173.3	10265.2
52.5°	8913.5	8912.4	9225.3	9605.5	10011.3	10041.4	9988.1	11112.6	13399.7	13343.0	11182.2
55°	8027.8	8088.1	8562.2	9298.3	10406.6	11098.7	11256.3	12171.0	14419.9	14486.0	12113.0
57.5°	6553.2	6603.0	7243.0	8268.9	9873.3	11727.0	13060.1	13709.3	15560.6	15868.9	13352.3
60°	4444.5	4504.9	5183.0	6415.3	8438.2	11376.8	14776.9	16454.4	16926.3	17627.6	15091.1
62.5°	2611.8	2666.3	3219.2	4046.9	5941.2	9750.5	15530.4	20359.9	19095.2	20281.1	17743.5
65°	1798.0	1835.1	2104.0	2519.0	3414.0	6567.1	14596.1	23056.3	22432.7	23568.7	20819.0
67.5°	1446.8	1442.2	1655.4	1938.3	2197.9	3386.2	11037.2	22751.4	25367.9	25842.0	22415.3
70°	1191.7	1187.0	1332.0	1566.1	1756.3	1907.0	6011.9	19199.6	24769.7	24962.1	20945.3
72.5°	997.0	1001.6	1094.4	1268.3	1440.9	1436.3	2642.0	13506.4	19485.9	20816.6	16696.7
75°	841.6	843.9	905.4	1028.3	1169.6	1157.0	1432.8	7317.2	11327.0	12253.3	9255.5
77.5°	716.4	718.7	758.1	826.5	927.4	922.8	1045.7	3161.3	4725.1	4667.1	3165.9
80°	638.7	638.7	657.2	670.0	725.7	704.8	775.5	1518.6	1997.4	1844.4	1263.5
82.5°	500.8	503.1	616.7	612.1	571.5	544.8	544.8	895.0	1058.3	978.5	739.6
85°	281.7	280.5	397.6	480.0	503.1	383.7	380.2	500.8	576.1	507.8	358.2
87.5°	120.6	122.9	184.3	213.3	285.2	238.8	235.3	258.5	293.3	253.9	165.8
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°	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4
2.5°	3272.5	3242.4	3176.4	3094.0	3019.9	2971.2	2927.1	2863.3	2866.8	2822.7	2790.3
5°	3270.3	3207.7	3054.6	2872.7	2697.6	2571.2	2476.2	2390.3	2369.5	2329.0	2304.6
7.5°	3272.5	3170.5	2913.2	2622.2	2405.5	2245.5	2164.4	2119.1	2108.7	2094.8	2095.9
10°	3280.7	3137.0	2757.9	2388.1	2160.9	2055.3	2035.7	2049.6	2065.7	2070.5	2071.6
12.5°	3299.2	3106.8	2587.5	2179.4	2007.8	1975.3	2009.0	2056.5	2087.8	2102.9	2101.8
15°	3341.0	3083.6	2424.0	2015.9	1923.1	1940.5	2003.1	2070.5	2115.7	2136.5	2137.7
17.5°	3386.2	3050.0	2255.9	1890.7	1860.6	1904.6	1982.3	2061.1	2116.8	2140.0	2144.6
20°	3445.3	3008.3	2079.7	1796.8	1801.5	1851.3	1924.4	2003.1	2064.6	2084.4	2093.6
22.5°	3522.9	2963.1	1925.5	1720.3	1734.2	1772.5	1829.3	1897.7	1951.0	1960.3	1968.4
25°	3627.3	2914.4	1802.6	1650.7	1656.6	1678.6	1716.8	1757.4	1794.6	1784.1	1792.2
27.5°	3767.5	2872.7	1711.1	1587.0	1576.6	1581.2	1600.9	1613.7	1633.3	1604.4	1607.9
30°	3932.2	2827.4	1640.3	1531.4	1502.4	1494.2	1498.9	1505.9	1520.9	1481.5	1475.7
32.5°	4123.4	2772.9	1574.2	1482.7	1442.2	1425.9	1428.2	1446.8	1504.7	1480.3	1467.6
35°	4346.0	2711.5	1504.7	1429.4	1401.5	1378.3	1376.1	1434.0	1606.7	1591.6	1580.0
37.5°	4606.9	2650.1	1435.2	1369.1	1371.4	1345.9	1337.8	1403.9	1626.4	1567.3	1559.2
40°	4938.4	2617.6	1376.1	1305.3	1334.3	1330.9	1314.6	1348.2	1496.6	1388.8	1374.8
42.5°	5348.8	2622.2	1332.0	1237.0	1290.2	1327.4	1301.8	1303.0	1356.3	1275.2	1262.4
45°	5855.4	2676.8	1300.7	1182.4	1240.4	1323.9	1297.2	1278.7	1283.3	1240.4	1233.5
47.5°	6446.6	2789.2	1278.7	1137.2	1192.9	1311.1	1296.1	1271.7	1261.3	1238.1	1232.2
50°	7103.9	2952.6	1262.4	1094.4	1150.0	1290.2	1297.2	1264.8	1253.1	1243.9	1240.4
52.5°	7749.6	3139.2	1238.1	1057.2	1116.3	1264.8	1300.7	1257.8	1245.0	1238.1	1234.6
55°	8469.5	3372.3	1200.9	1025.9	1088.5	1232.2	1300.7	1247.4	1233.5	1234.6	1233.5
57.5°	9442.1	3749.0	1157.0	999.3	1055.0	1192.9	1278.7	1235.7	1218.3	1219.6	1220.7
60°	10961.8	4413.3	1103.6	972.6	1013.2	1146.5	1248.5	1210.3	1192.9	1197.5	1198.7
62.5°	13196.9	5388.2	1034.1	933.2	969.1	1096.6	1206.8	1177.8	1160.4	1172.0	1172.0
65°	15520.0	6248.4	948.3	883.3	922.8	1042.2	1154.6	1137.2	1119.8	1146.5	1145.3
67.5°	16144.9	6056.0	862.4	828.9	876.4	981.9	1092.0	1082.7	1073.5	1119.8	1117.5
70°	14342.3	4861.9	783.7	773.2	825.4	917.0	1024.8	1024.8	1019.0	1053.7	1045.7
72.5°	10927.1	3447.7	708.3	714.1	767.4	846.3	951.8	959.8	950.6	968.0	961.1
75°	5849.5	1973.1	633.0	649.2	695.5	774.4	870.6	878.7	872.9	871.8	875.2
77.5°	1944.0	964.5	554.1	579.6	620.2	700.2	785.9	798.7	784.8	782.5	781.3
80°	865.9	606.3	467.2	500.8	536.7	615.6	696.7	707.2	692.0	712.9	686.3
82.5°	556.5	398.7	374.4	411.5	446.3	530.9	607.4	609.8	595.9	692.0	590.0
85°	270.1	246.9	281.7	315.3	345.5	417.4	503.1	504.3	469.5	427.8	412.7
87.5°	134.5	143.7	187.8	217.9	233.0	286.3	366.3	359.4	344.3	313.0	288.7
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)