

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: P193895

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193895  
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-07-LED-E1-T2-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22213 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

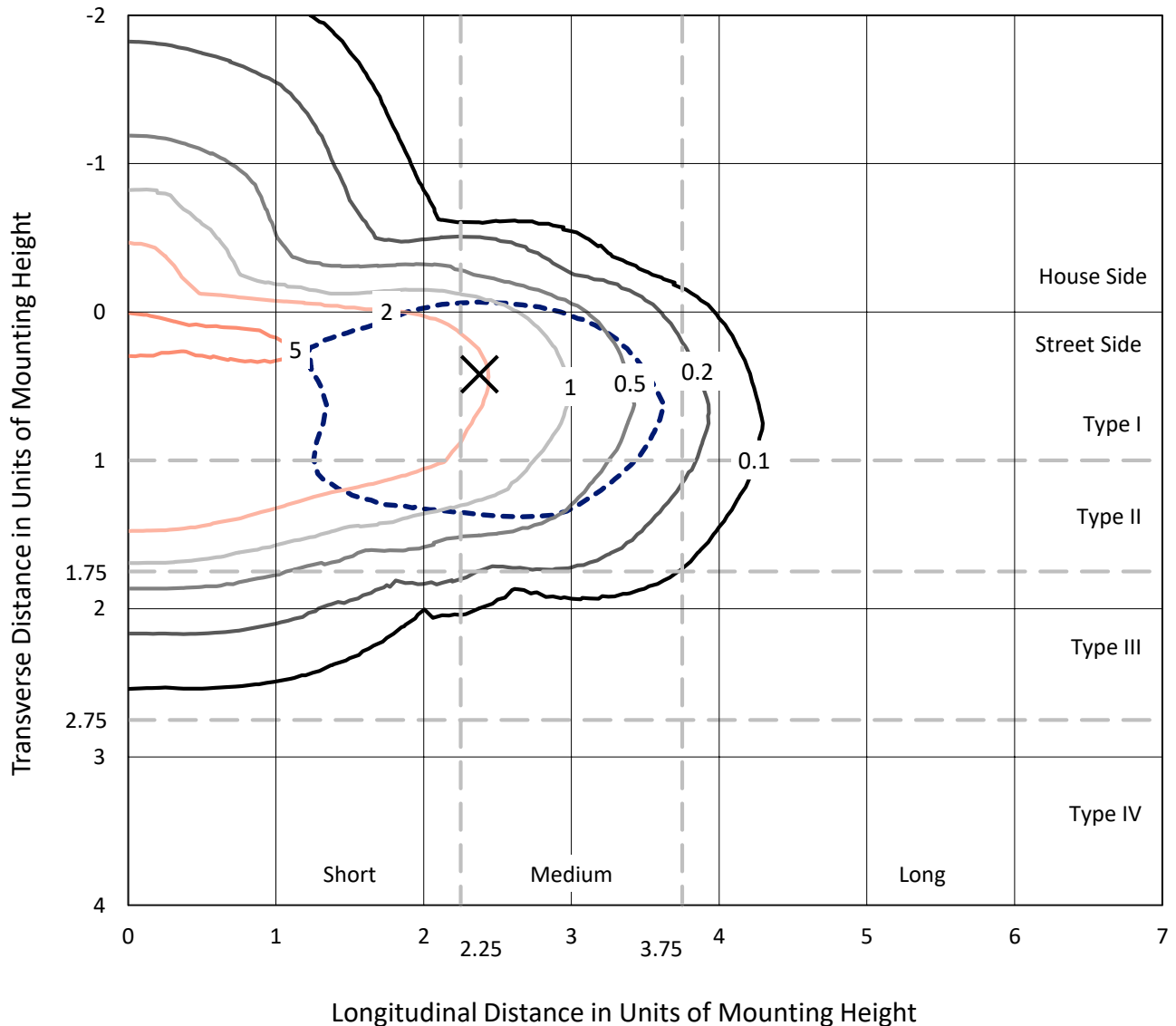
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

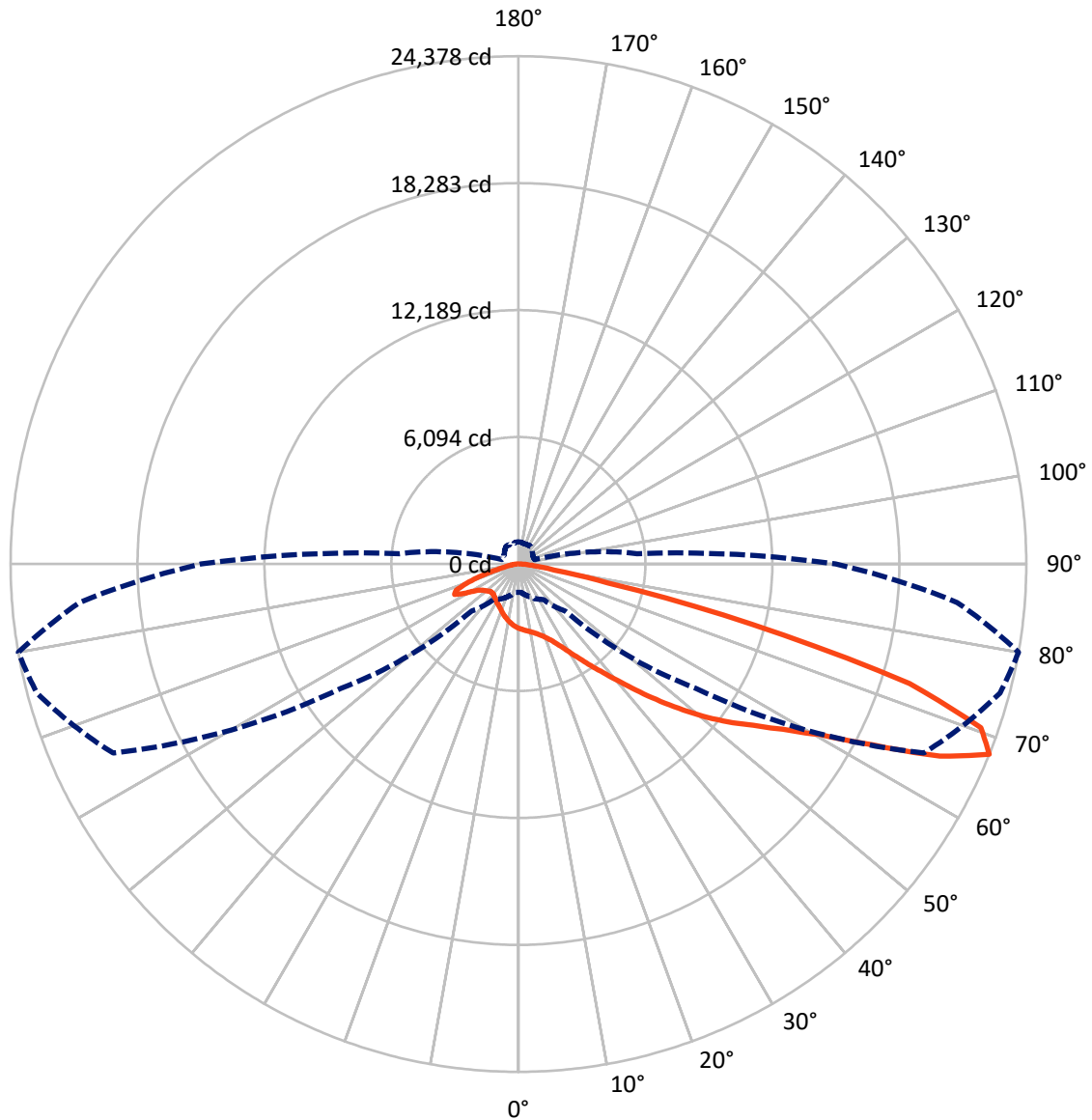
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	4090.8	0.0	4090.8
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	18122.2	0.0	18122.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	22213.0	0.0	22213.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.7	1.3
10°-20°	820.1	3.7
20°-30°	1357.4	6.1
30°-40°	2220.3	10.0
40°-50°	3584.9	16.1
50°-60°	5175.6	23.3
60°-70°	5711.6	25.7
70°-80°	2632.7	11.9
80°-90°	425.8	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°	22213.0	100.0
0°-180°	22213.0	100.0



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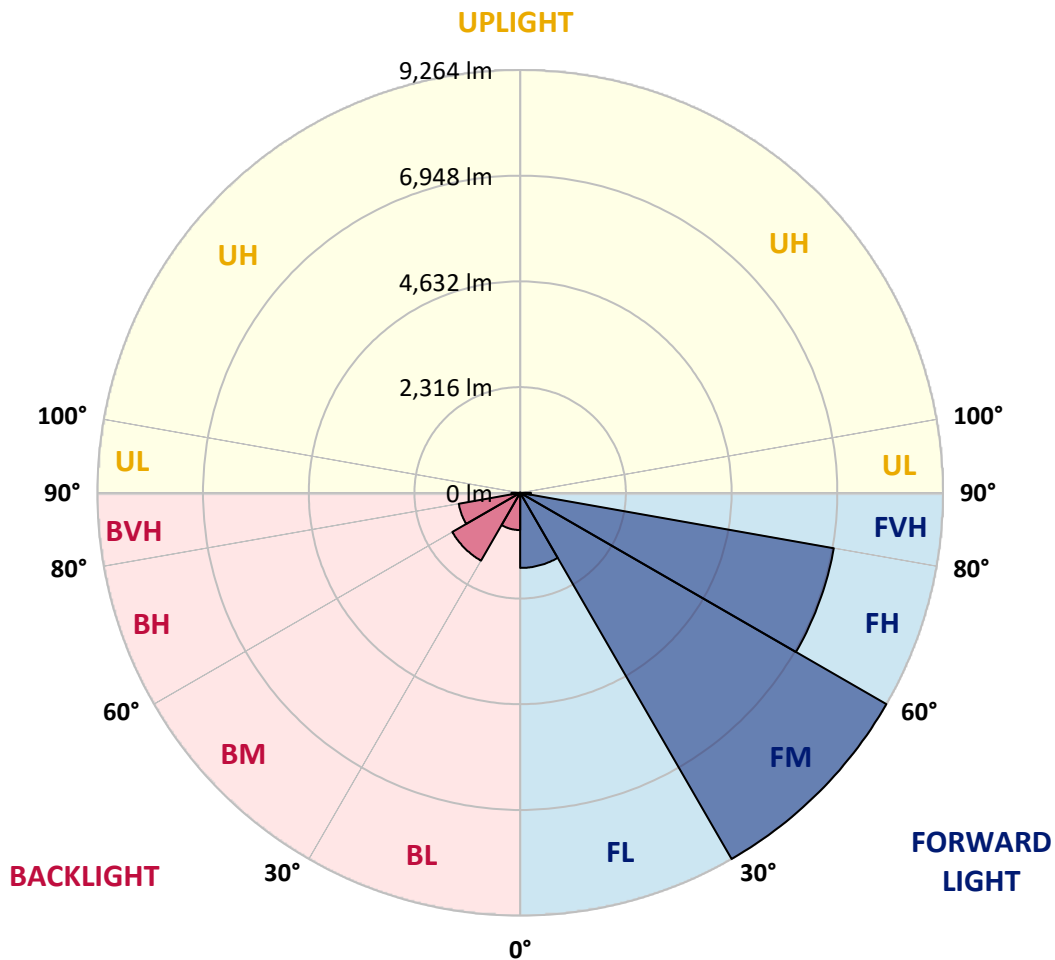
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.9	7.4			
FM (30°-60°)	9264.5	41.7			
FH (60°-80°)	6977.7	31.4			G3/7500
FVH (80°-90°)	234.1	1.1			G3/500
BL (0°-30°)	816.2	3.7	B2/1000		
BM (30°-60°)	1716.3	7.7	B2/2500		
BH (60°-80°)	1366.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	191.7	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°	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0
2.5°	3375.8	3356.1	3359.4	3354.0	3337.6	3309.1	3278.5	3222.7	3164.8	3134.1	3110.1
5°	3658.0	3652.5	3644.8	3627.3	3585.8	3526.7	3453.5	3355.0	3249.0	3193.2	3139.6
7.5°	3869.0	3865.7	3855.9	3845.0	3804.5	3733.4	3623.0	3483.0	3328.8	3252.3	3169.1
10°	3886.5	3892.0	3899.6	3929.2	3934.6	3896.4	3783.7	3614.2	3411.9	3313.5	3207.4
12.5°	3737.8	3749.8	3779.4	3854.8	3934.6	3981.7	3923.7	3752.0	3509.2	3390.0	3255.5
15°	3541.0	3547.5	3583.6	3687.5	3830.7	3976.2	4030.9	3904.0	3635.0	3488.5	3327.7
17.5°	3456.7	3460.0	3485.2	3554.1	3687.5	3895.3	4091.0	4069.1	3789.2	3610.9	3416.3
20°	3414.1	3421.8	3457.8	3525.6	3609.8	3791.4	4099.8	4247.4	3972.9	3764.0	3527.8
22.5°	3535.5	3532.2	3545.3	3579.2	3650.3	3759.7	4093.2	4431.1	4206.9	3960.9	3673.3
25°	3818.7	3830.7	3807.8	3769.5	3792.5	3869.0	4128.2	4630.1	4500.0	4213.5	3863.6
27.5°	4222.2	4210.2	4176.3	4086.6	4039.6	4072.4	4244.1	4844.5	4864.2	4545.9	4115.1
30°	4624.7	4614.8	4582.0	4472.7	4376.4	4349.1	4469.4	5090.5	5298.3	4945.1	4423.5
32.5°	5042.4	5031.5	5000.9	4891.5	4775.6	4712.2	4789.8	5374.9	5810.1	5421.9	4786.5
35°	5557.5	5536.7	5472.2	5320.2	5206.4	5157.2	5193.3	5732.5	6400.6	5986.2	5227.2
37.5°	6041.9	6073.6	6008.0	5798.1	5650.4	5632.9	5673.4	6168.8	7037.1	6617.1	5733.5
40°	6528.6	6534.0	6475.0	6303.3	6151.3	6122.9	6224.6	6698.1	7788.3	7371.7	6349.2
42.5°	7031.6	7042.5	6943.0	6784.5	6672.9	6678.4	6794.3	7318.1	8650.1	8260.8	7057.8
45°	7627.6	7644.0	7534.6	7326.9	7225.2	7429.7	7381.5	8013.6	9594.9	9271.2	7871.5
47.5°	8250.9	8276.1	8193.0	7998.3	7871.5	8152.5	7968.8	8784.6	10611.9	10354.9	8764.9
50°	8591.0	8627.1	8708.0	8693.8	8666.5	8619.5	8623.8	9611.3	11660.7	11483.5	9683.5
52.5°	8408.4	8407.3	8702.6	9061.3	9444.0	9472.4	9422.1	10482.9	12640.5	12586.9	10548.5
55°	7572.9	7629.8	8077.0	8771.5	9816.9	10469.8	10618.5	11481.3	13602.8	13665.1	11426.6
57.5°	6181.9	6228.9	6832.6	7800.4	9313.9	11062.5	12320.1	12932.5	14678.9	14969.8	12595.6
60°	4192.7	4249.6	4889.3	6051.8	7960.0	10732.2	13939.6	15522.0	15967.1	16628.7	14236.0
62.5°	2463.8	2515.2	3036.8	3817.6	5604.5	9197.9	14650.4	19206.2	18013.2	19131.9	16738.1
65°	1696.1	1731.1	1984.8	2376.3	3220.5	6195.0	13769.0	21749.9	21161.5	22233.2	19639.3
67.5°	1364.8	1360.4	1561.6	1828.4	2073.4	3194.3	10411.8	21462.2	23930.4	24377.7	21145.1
70°	1124.2	1119.8	1256.5	1477.4	1656.7	1798.9	5671.2	18111.6	23366.1	23547.7	19758.5
72.5°	940.5	944.8	1032.3	1196.4	1359.3	1354.9	2492.2	12741.1	18381.7	19637.1	15750.6
75°	793.9	796.1	854.1	970.0	1103.4	1091.4	1351.6	6902.6	10685.2	11558.9	8731.0
77.5°	675.8	678.0	715.2	779.7	874.8	870.5	986.4	2982.1	4457.4	4402.7	2986.5
80°	602.6	602.6	620.0	632.1	684.6	664.9	731.6	1432.6	1884.2	1739.9	1192.0
82.5°	472.4	474.6	581.8	577.4	539.1	514.0	514.0	844.2	998.4	923.0	697.7
85°	265.7	264.6	375.1	452.7	474.6	362.0	358.7	472.4	543.5	479.0	337.9
87.5°	113.7	115.9	173.9	201.2	269.0	225.3	222.0	243.9	276.7	239.5	156.4
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°	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0	3086.0
2.5°	3087.1	3058.7	2996.4	2918.7	2848.7	2802.8	2761.2	2701.1	2704.4	2662.8	2632.2
5°	3084.9	3025.9	2881.5	2709.8	2544.7	2425.5	2335.8	2254.9	2235.2	2197.0	2174.0
7.5°	3087.1	2990.9	2748.1	2473.6	2269.1	2118.2	2041.7	1999.0	1989.2	1976.1	1977.2
10°	3094.8	2959.2	2601.6	2252.7	2038.4	1938.9	1920.3	1933.4	1948.7	1953.1	1954.2
12.5°	3112.3	2930.7	2440.8	2055.9	1894.0	1863.4	1895.1	1940.0	1969.5	1983.7	1982.6
15°	3151.6	2908.9	2286.6	1901.7	1814.2	1830.6	1889.7	1953.1	1995.8	2015.4	2016.5
17.5°	3194.3	2877.2	2128.1	1783.6	1755.2	1796.7	1870.0	1944.4	1996.8	2018.7	2023.1
20°	3250.1	2837.8	1961.9	1695.0	1699.4	1746.4	1815.3	1889.7	1947.6	1966.2	1975.0
22.5°	3323.3	2795.1	1816.4	1622.8	1636.0	1672.1	1725.6	1790.2	1840.5	1849.2	1856.9
25°	3421.8	2749.2	1700.5	1557.2	1562.7	1583.5	1619.6	1657.8	1692.8	1683.0	1690.6
27.5°	3554.1	2709.8	1614.1	1497.1	1487.2	1491.6	1510.2	1522.2	1540.8	1513.5	1516.8
30°	3709.4	2667.2	1547.4	1444.6	1417.3	1409.6	1414.0	1420.5	1434.8	1397.6	1392.1
32.5°	3889.8	2615.8	1485.1	1398.7	1360.4	1345.1	1347.3	1364.8	1419.4	1396.5	1384.4
35°	4099.8	2557.8	1419.4	1348.4	1322.1	1300.2	1298.1	1352.7	1515.7	1501.5	1490.5
37.5°	4345.8	2499.9	1353.8	1291.5	1293.7	1269.6	1262.0	1324.3	1534.3	1478.5	1470.8
40°	4658.6	2469.3	1298.1	1231.4	1258.7	1255.4	1240.1	1271.8	1411.8	1310.1	1297.0
42.5°	5045.7	2473.6	1256.5	1166.8	1217.1	1252.1	1228.1	1229.2	1279.5	1202.9	1190.9
45°	5523.6	2525.0	1227.0	1115.4	1170.1	1248.8	1223.7	1206.2	1210.6	1170.1	1163.5
47.5°	6081.3	2631.1	1206.2	1072.8	1125.3	1236.8	1222.6	1199.6	1189.8	1167.9	1162.5
50°	6701.3	2785.3	1190.9	1032.3	1084.8	1217.1	1223.7	1193.1	1182.1	1173.4	1170.1
52.5°	7310.5	2961.4	1167.9	997.3	1053.1	1193.1	1227.0	1186.5	1174.5	1167.9	1164.6
55°	7989.6	3181.2	1132.9	967.8	1026.9	1162.5	1227.0	1176.7	1163.5	1164.6	1163.5
57.5°	8907.1	3536.6	1091.4	942.7	995.1	1125.3	1206.2	1165.7	1149.3	1150.4	1151.5
60°	10340.7	4163.2	1041.1	917.5	955.8	1081.5	1177.8	1141.7	1125.3	1129.6	1130.7
62.5°	12449.1	5082.9	975.5	880.3	914.2	1034.5	1138.4	1111.1	1094.7	1105.6	1105.6
65°	14640.6	5894.3	894.5	833.3	870.5	983.1	1089.2	1072.8	1056.4	1081.5	1080.4
67.5°	15230.0	5712.8	813.6	781.9	826.7	926.2	1030.1	1021.4	1012.6	1056.4	1054.2
70°	13529.5	4586.4	739.2	729.4	778.6	865.0	966.7	966.7	961.2	994.0	986.4
72.5°	10307.9	3252.3	668.2	673.6	723.9	798.3	897.8	905.5	896.7	913.1	906.6
75°	5518.1	1861.2	597.1	612.4	656.1	730.5	821.3	828.9	823.5	822.4	825.6
77.5°	1833.9	909.8	522.7	546.8	585.1	660.5	741.4	753.5	740.3	738.2	737.1
80°	816.9	571.9	440.7	472.4	506.3	580.7	657.2	667.1	652.9	672.5	647.4
82.5°	524.9	376.2	353.2	388.2	421.0	500.9	573.0	575.2	562.1	652.9	556.6
85°	254.8	232.9	265.7	297.4	325.9	393.7	474.6	475.7	442.9	403.5	389.3
87.5°	126.9	135.6	177.2	205.6	219.8	270.1	345.6	339.0	324.8	295.3	272.3
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)