

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: P193922

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193922
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-04-LED-E1-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21092 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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

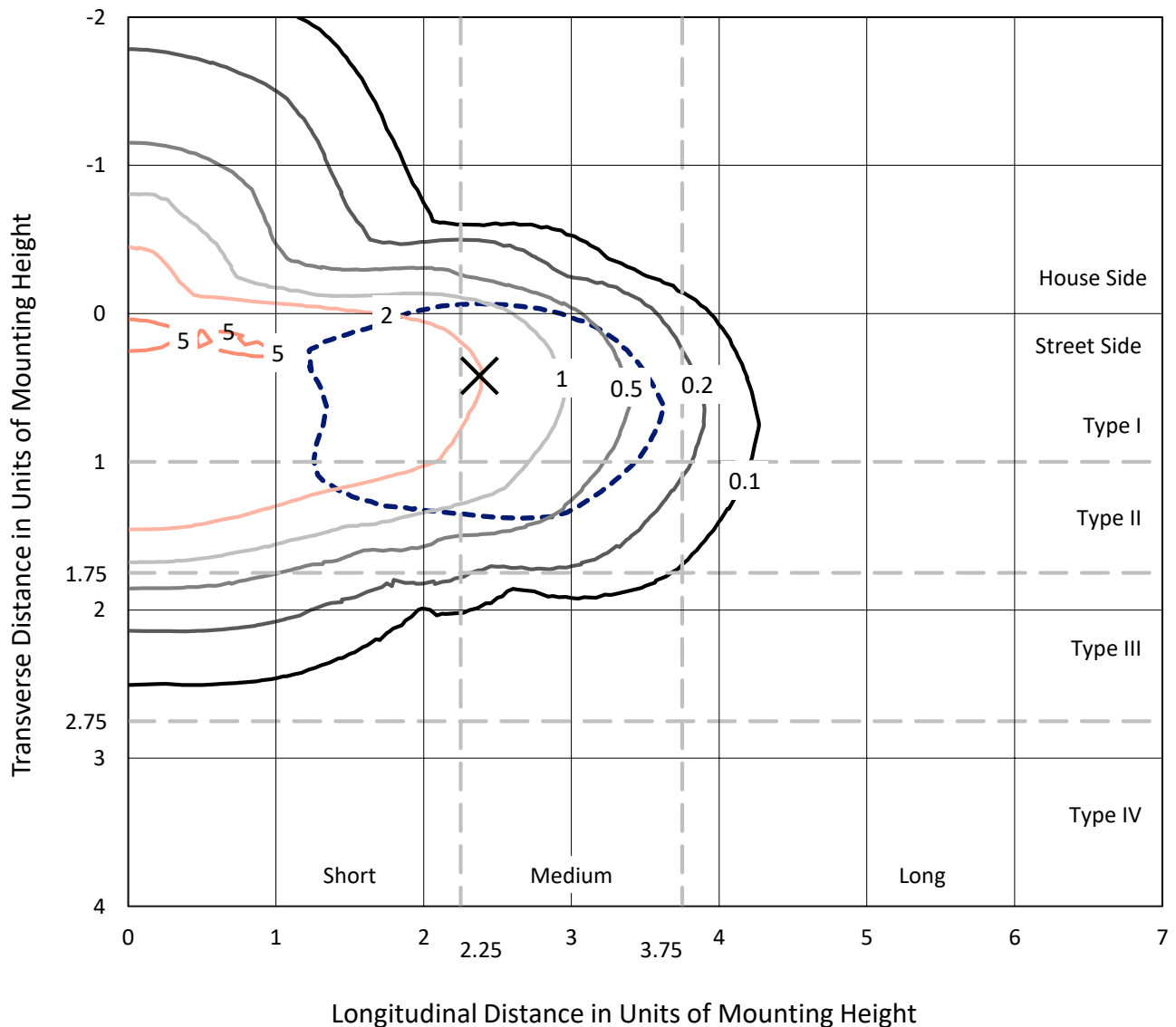


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

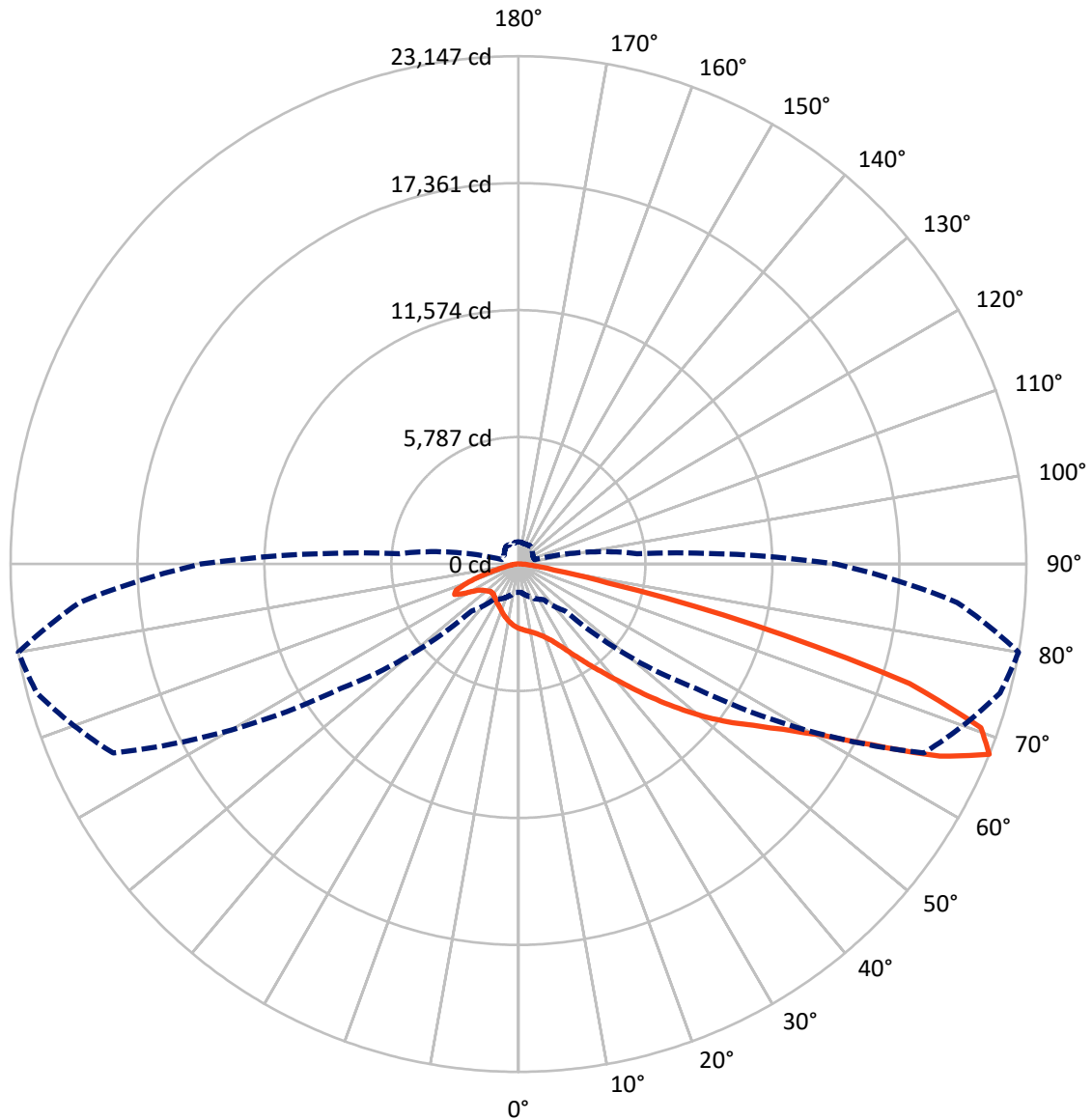


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	3884.3	0.0	3884.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	17207.7	0.0	17207.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	21092.0	0.0	21092.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	1.3
10°-20°	778.7	3.7
20°-30°	1288.9	6.1
30°-40°	2108.3	10.0
40°-50°	3404.0	16.1
50°-60°	4914.4	23.3
60°-70°	5423.3	25.7
70°-80°	2499.8	11.9
80°-90°	404.3	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°	21092.0	100.0
0°-180°	21092.0	100.0



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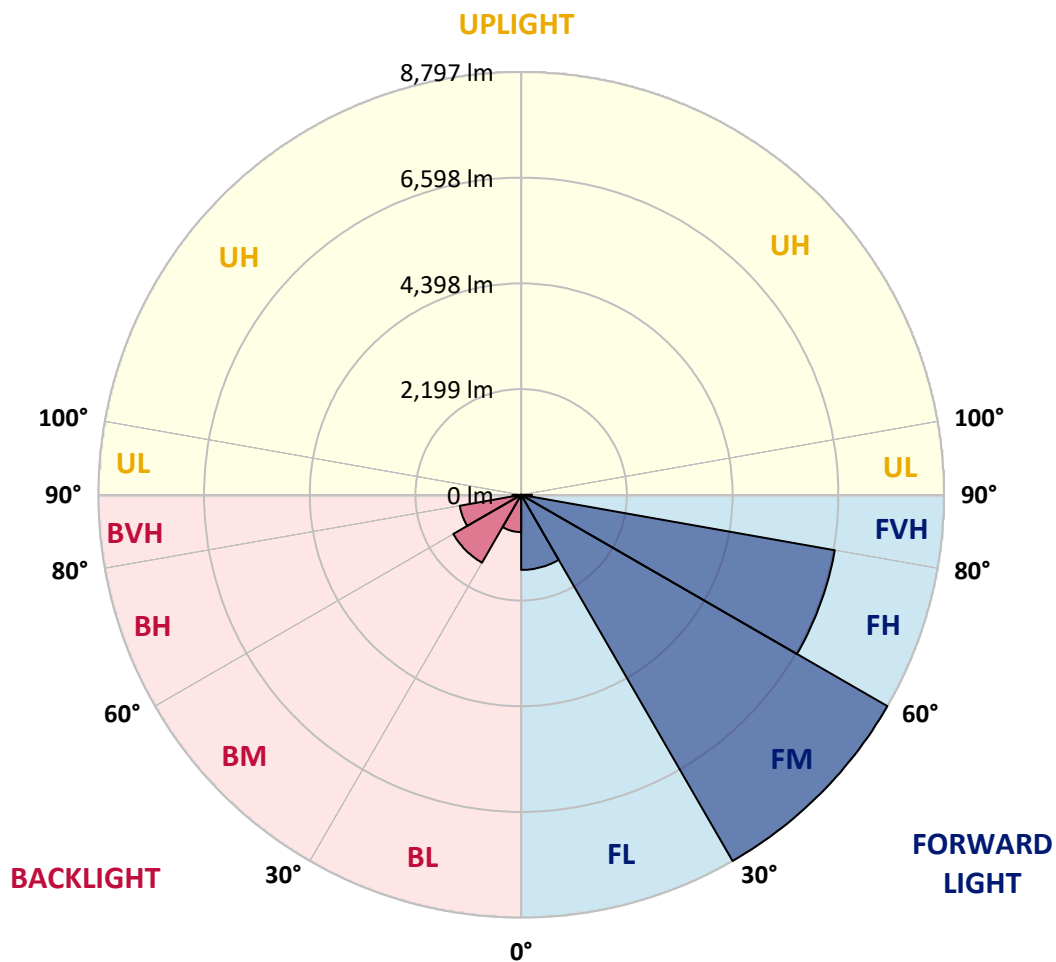
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.9	7.4			
FM (30°-60°)	8796.9	41.7			
FH (60°-80°)	6625.5	31.4			G3/7500
FVH (80°-90°)	222.3	1.1			G2/225
BL (0°-30°)	775.0	3.7	B2/1000		
BM (30°-60°)	1629.7	7.7	B2/2500		
BH (60°-80°)	1297.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	182.0	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°	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3
2.5°	3205.5	3186.8	3189.9	3184.7	3169.1	3142.1	3113.0	3060.1	3005.1	2976.0	2953.1
5°	3473.4	3468.2	3460.9	3444.3	3404.8	3348.8	3279.2	3185.7	3085.0	3032.1	2981.2
7.5°	3673.8	3670.7	3661.3	3650.9	3612.5	3545.0	3440.1	3307.2	3160.8	3088.1	3009.2
10°	3690.4	3695.6	3702.8	3730.9	3736.1	3699.7	3592.8	3431.8	3239.7	3146.3	3045.6
12.5°	3549.2	3560.6	3588.6	3660.3	3736.1	3780.7	3725.7	3562.7	3332.1	3219.0	3091.2
15°	3362.3	3368.5	3402.8	3501.4	3637.4	3775.5	3827.4	3707.0	3451.6	3312.4	3159.8
17.5°	3282.3	3285.4	3309.3	3374.7	3501.4	3698.7	3884.6	3863.8	3598.0	3428.7	3243.9
20°	3241.8	3249.1	3283.3	3347.7	3427.7	3600.0	3892.9	4033.0	3772.4	3574.1	3349.8
22.5°	3357.1	3353.9	3366.4	3398.6	3466.1	3569.9	3886.6	4207.5	3994.6	3761.0	3487.9
25°	3626.0	3637.4	3615.6	3579.3	3601.1	3673.8	3919.9	4396.5	4272.9	4000.9	3668.6
27.5°	4009.2	3997.7	3965.6	3880.4	3835.8	3866.9	4029.9	4600.0	4618.7	4316.5	3907.4
30°	4391.3	4381.9	4350.8	4247.0	4155.6	4129.6	4243.8	4833.6	5030.9	4695.5	4200.2
32.5°	4787.9	4777.6	4748.5	4644.6	4534.6	4474.4	4548.1	5103.6	5516.9	5148.3	4545.0
35°	5277.0	5257.3	5196.0	5051.7	4943.7	4897.0	4931.2	5443.2	6077.6	5684.1	4963.4
37.5°	5737.0	5767.1	5704.8	5505.5	5365.3	5348.7	5387.1	5857.5	6681.9	6283.2	5444.2
40°	6199.1	6204.3	6148.2	5985.2	5840.9	5813.9	5910.4	6360.0	7395.3	6999.7	6028.8
42.5°	6676.7	6687.1	6592.6	6442.1	6336.2	6341.4	6451.4	6948.8	8213.5	7843.9	6701.7
45°	7242.7	7258.2	7154.4	6957.1	6860.5	7054.7	7009.0	7609.2	9110.7	8803.3	7474.2
47.5°	7834.5	7858.4	7779.5	7594.7	7474.2	7741.1	7566.6	8341.3	10076.4	9832.4	8322.6
50°	8157.5	8191.7	8268.6	8255.1	8229.1	8184.5	8188.6	9126.3	11072.2	10904.0	9194.8
52.5°	7984.1	7983.0	8263.4	8604.0	8967.4	8994.4	8946.6	9953.9	12002.6	11951.7	10016.2
55°	7190.7	7244.7	7669.4	8328.8	9321.5	9941.4	10082.6	10901.9	12916.3	12975.5	10850.0
57.5°	5869.9	5914.6	6487.8	7406.7	8843.8	10504.2	11698.3	12279.8	13938.1	14214.3	11960.0
60°	3981.1	4035.1	4642.6	5746.4	7558.3	10190.6	13236.2	14738.7	15161.3	15789.5	13517.6
62.5°	2339.5	2388.3	2883.6	3625.0	5321.7	8733.8	13911.1	18237.0	17104.1	18166.4	15893.4
65°	1610.5	1643.7	1884.6	2256.4	3058.0	5882.4	13074.2	20652.2	20093.6	21111.2	18648.2
67.5°	1295.9	1291.7	1482.8	1736.2	1968.8	3033.1	9886.4	20379.1	22722.7	23147.4	20078.0
70°	1067.4	1063.3	1193.1	1402.8	1573.1	1708.1	5385.0	17197.6	22186.9	22359.3	18761.3
72.5°	893.0	897.2	980.2	1136.0	1290.7	1286.5	2366.5	12098.1	17454.0	18646.1	14955.7
75°	753.9	755.9	811.0	921.0	1047.7	1036.3	1283.4	6554.2	10146.0	10975.6	8290.4
77.5°	641.7	643.8	679.1	740.4	830.7	826.5	936.6	2831.6	4232.4	4180.5	2835.8
80°	572.1	572.1	588.8	600.2	650.0	631.3	694.7	1360.3	1789.1	1652.1	1131.8
82.5°	448.6	450.7	552.4	548.3	511.9	488.0	488.0	801.6	948.0	876.4	662.5
85°	252.3	251.3	356.2	429.9	450.7	343.7	340.6	448.6	516.1	454.8	320.9
87.5°	108.0	110.1	165.1	191.1	255.4	213.9	210.8	231.6	262.7	227.4	148.5
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°	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3
2.5°	2931.3	2904.3	2845.1	2771.4	2705.0	2661.4	2621.9	2564.8	2567.9	2528.4	2499.4
5°	2929.3	2873.2	2736.1	2573.1	2416.3	2303.1	2218.0	2141.1	2122.4	2086.1	2064.3
7.5°	2931.3	2840.0	2609.4	2348.8	2154.6	2011.3	1938.6	1898.1	1888.8	1876.3	1877.4
10°	2938.6	2809.8	2470.3	2139.1	1935.5	1841.0	1823.4	1835.8	1850.4	1854.5	1855.6
12.5°	2955.2	2782.8	2317.7	1952.1	1798.5	1769.4	1799.5	1842.1	1870.1	1883.6	1882.6
15°	2992.6	2762.1	2171.2	1805.7	1722.7	1738.2	1794.3	1854.5	1895.0	1913.7	1914.8
17.5°	3033.1	2732.0	2020.7	1693.6	1666.6	1706.0	1775.6	1846.2	1896.1	1916.8	1921.0
20°	3086.0	2694.6	1862.8	1609.5	1613.6	1658.3	1723.7	1794.3	1849.3	1867.0	1875.3
22.5°	3155.6	2654.1	1724.7	1540.9	1553.4	1587.7	1638.6	1699.8	1747.6	1755.9	1763.2
25°	3249.1	2610.5	1614.7	1478.6	1483.8	1503.6	1537.8	1574.2	1607.4	1598.1	1605.3
27.5°	3374.7	2573.1	1532.6	1421.5	1412.2	1416.3	1434.0	1445.4	1463.1	1437.1	1440.2
30°	3522.2	2532.6	1469.3	1371.7	1345.7	1338.5	1342.6	1348.8	1362.3	1327.0	1321.9
32.5°	3693.5	2483.8	1410.1	1328.1	1291.7	1277.2	1279.3	1295.9	1347.8	1326.0	1314.6
35°	3892.9	2428.8	1347.8	1280.3	1255.4	1234.6	1232.6	1284.5	1439.2	1425.7	1415.3
37.5°	4126.5	2373.7	1285.5	1226.3	1228.4	1205.6	1198.3	1257.5	1456.8	1403.9	1396.6
40°	4423.5	2344.6	1232.6	1169.2	1195.2	1192.1	1177.5	1207.6	1340.5	1244.0	1231.5
42.5°	4791.1	2348.8	1193.1	1107.9	1155.7	1188.9	1166.1	1167.1	1214.9	1142.2	1130.8
45°	5244.8	2397.6	1165.1	1059.1	1111.1	1185.8	1161.9	1145.3	1149.5	1111.1	1104.8
47.5°	5774.4	2498.3	1145.3	1018.6	1068.5	1174.4	1160.9	1139.1	1129.8	1109.0	1103.8
50°	6363.2	2644.7	1130.8	980.2	1030.1	1155.7	1161.9	1132.9	1122.5	1114.2	1111.1
52.5°	6941.5	2811.9	1109.0	947.0	1000.0	1132.9	1165.1	1126.6	1115.2	1109.0	1105.9
55°	7586.4	3020.6	1075.8	919.0	975.0	1103.8	1165.1	1117.3	1104.8	1105.9	1104.8
57.5°	8457.6	3358.1	1036.3	895.1	944.9	1068.5	1145.3	1106.9	1091.3	1092.4	1093.4
60°	9818.9	3953.1	988.5	871.2	907.5	1027.0	1118.3	1084.1	1068.5	1072.6	1073.7
62.5°	11820.9	4826.4	926.2	835.9	868.1	982.3	1080.9	1055.0	1039.4	1049.8	1049.8
65°	13901.8	5596.8	849.4	791.2	826.5	933.5	1034.2	1018.6	1003.1	1027.0	1025.9
67.5°	14461.4	5424.5	772.6	742.4	785.0	879.5	978.1	969.8	961.5	1003.1	1001.0
70°	12846.8	4354.9	701.9	692.6	739.3	821.4	917.9	917.9	912.7	943.9	936.6
72.5°	9787.7	3088.1	634.4	639.6	687.4	758.0	852.5	859.8	851.5	867.0	860.8
75°	5239.6	1767.3	567.0	581.5	623.0	693.6	779.8	787.1	781.9	780.9	784.0
77.5°	1741.4	863.9	496.3	519.2	555.5	627.2	704.0	715.4	703.0	700.9	699.9
80°	775.7	543.1	418.5	448.6	480.8	551.4	624.1	633.4	619.9	638.6	614.7
82.5°	498.4	357.2	335.4	368.6	399.8	475.6	544.1	546.2	533.7	619.9	528.5
85°	241.9	221.2	252.3	282.4	309.4	373.8	450.7	451.7	420.5	383.2	369.7
87.5°	120.5	128.8	168.2	195.2	208.7	256.5	328.1	321.9	308.4	280.4	258.6
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)