

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: P193904

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193904
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-T2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23033 lumens
Efficiency: N/A
Efficacy: 92.5 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

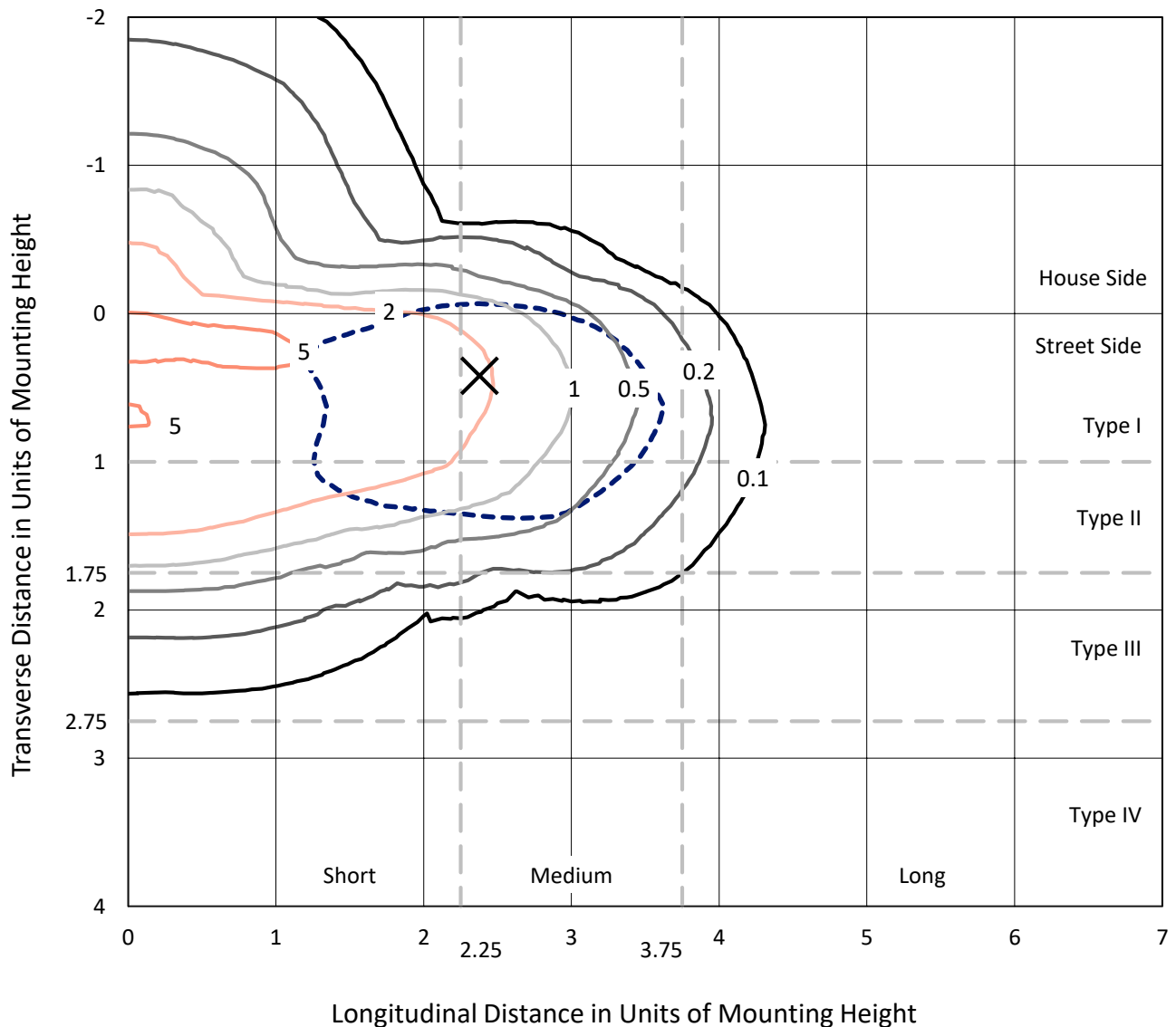
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

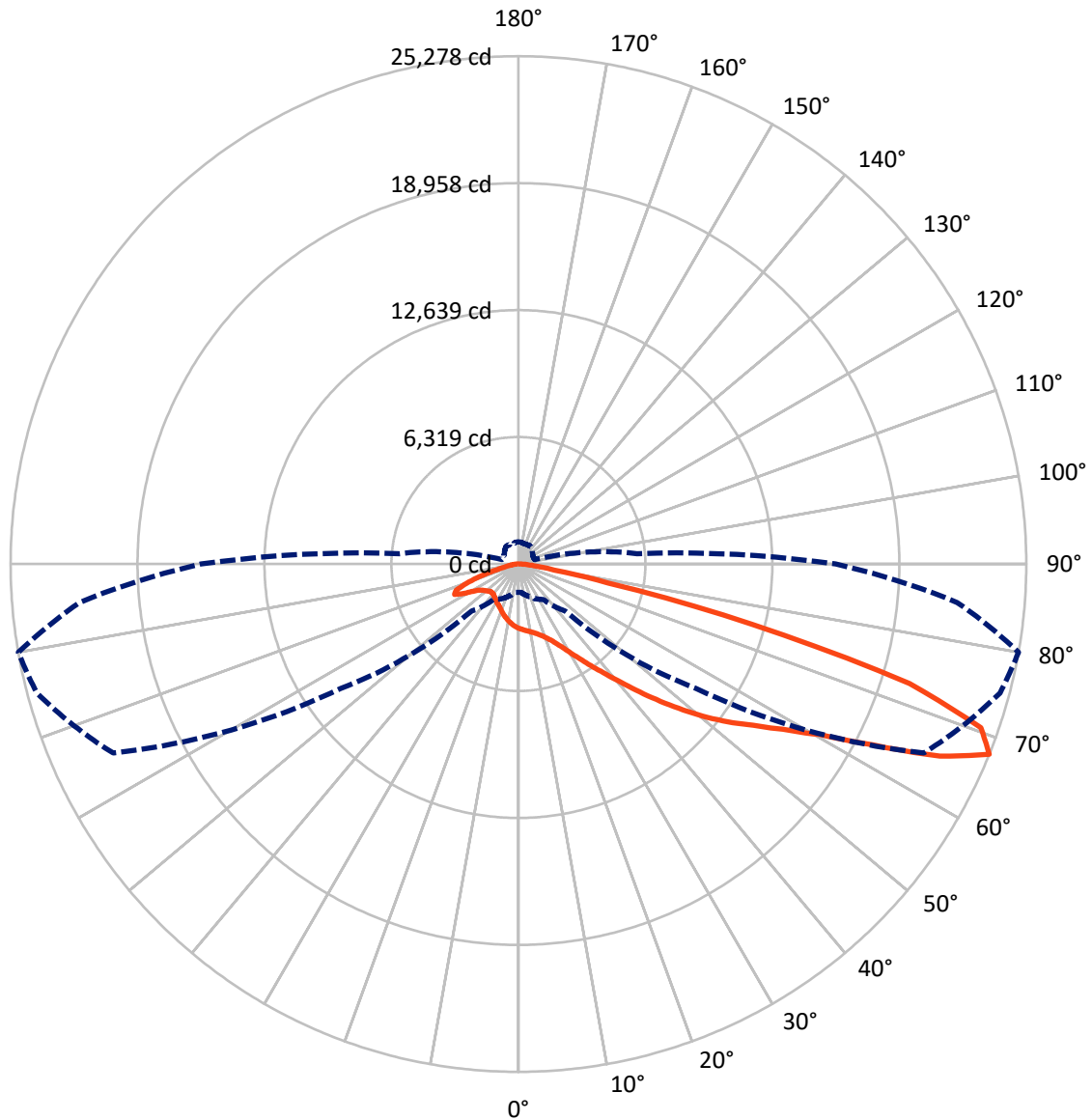
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	4241.8	0.0	4241.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18791.2	0.0	18791.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	23033.0	0.0	23033.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.3
10°-20°	850.3	3.7
20°-30°	1407.5	6.1
30°-40°	2302.3	10.0
40°-50°	3717.3	16.1
50°-60°	5366.6	23.3
60°-70°	5922.4	25.7
70°-80°	2729.9	11.9
80°-90°	441.5	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°	23033.0	100.0
0°-180°	23033.0	100.0



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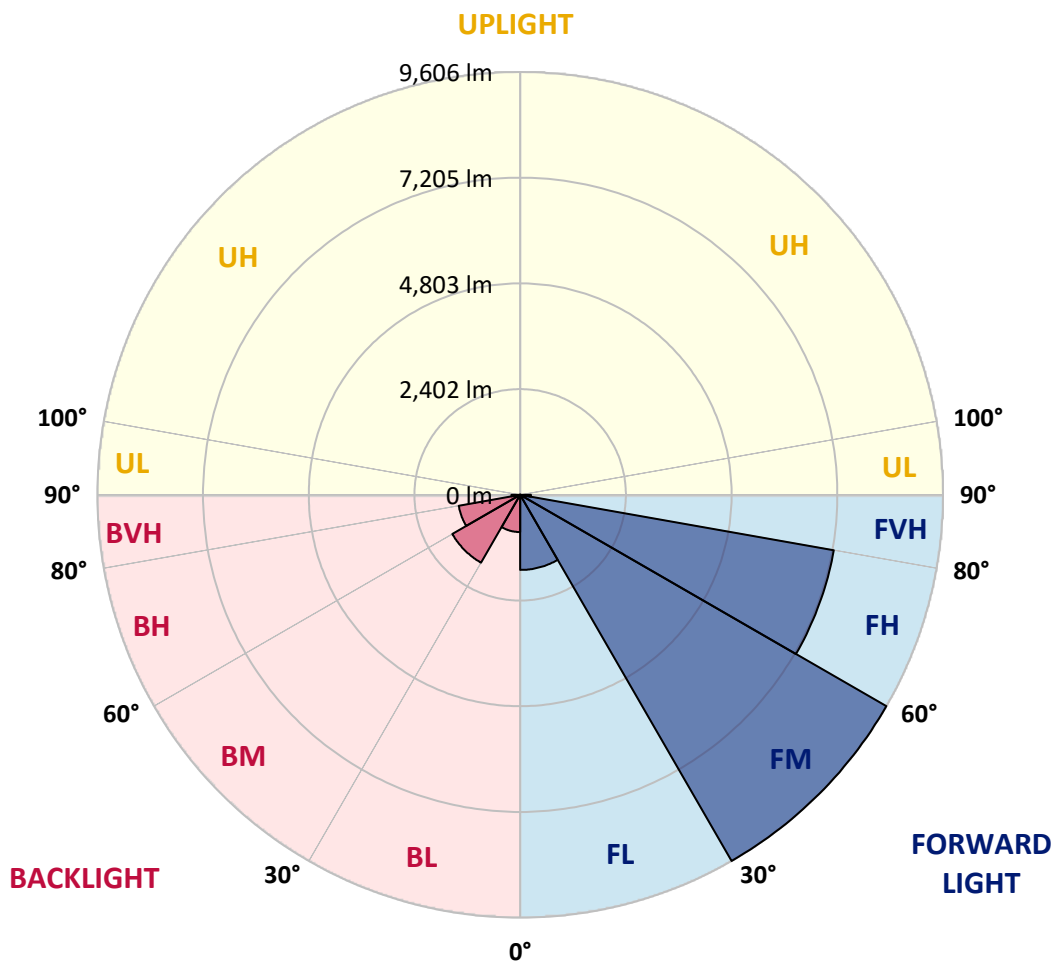
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.7	7.4			
FM (30°-60°)	9606.5	41.7			
FH (60°-80°)	7235.3	31.4			G3/7500
FVH (80°-90°)	242.7	1.1			G3/500
BL (0°-30°)	846.3	3.7	B2/1000		
BM (30°-60°)	1779.7	7.7	B2/2500		
BH (60°-80°)	1417.0	6.2	B3/2500		G3/2500
BVH (80°-90°)	198.8	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°	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0
2.5°	3500.4	3480.0	3483.4	3477.8	3460.8	3431.3	3399.5	3341.7	3281.6	3249.8	3224.9
5°	3793.0	3787.3	3779.4	3761.2	3718.2	3656.9	3581.0	3478.9	3368.9	3311.1	3255.5
7.5°	4011.8	4008.4	3998.2	3986.9	3944.9	3871.2	3756.7	3611.6	3451.7	3372.3	3286.1
10°	4030.0	4035.7	4043.6	4074.2	4079.9	4040.2	3923.4	3747.6	3537.9	3435.8	3325.8
12.5°	3875.8	3888.2	3918.9	3997.1	4079.9	4128.6	4068.5	3890.5	3638.8	3515.2	3375.7
15°	3671.7	3678.5	3715.9	3823.6	3972.2	4123.0	4179.7	4048.1	3769.2	3617.2	3450.6
17.5°	3584.4	3587.8	3613.8	3685.3	3823.6	4039.1	4242.0	4219.4	3929.1	3744.2	3542.4
20°	3540.1	3548.1	3585.5	3655.8	3743.1	3931.3	4251.1	4404.2	4119.6	3903.0	3658.1
22.5°	3666.0	3662.6	3676.2	3711.4	3785.1	3898.5	4244.3	4594.7	4362.2	4107.1	3808.9
25°	3959.7	3972.2	3948.3	3908.7	3932.5	4011.8	4280.6	4801.1	4666.1	4369.0	4006.2
27.5°	4378.1	4365.6	4330.5	4237.5	4188.7	4222.8	4400.8	5023.3	5043.7	4713.8	4267.0
30°	4795.4	4785.2	4751.2	4637.8	4538.0	4509.6	4634.4	5278.4	5493.9	5127.6	4586.8
32.5°	5228.6	5217.2	5185.5	5072.1	4951.9	4886.1	4966.6	5573.3	6024.6	5622.0	4963.2
35°	5762.6	5741.1	5674.2	5516.6	5398.6	5347.6	5385.0	5944.1	6636.9	6207.1	5420.2
37.5°	6265.0	6297.9	6229.8	6012.1	5859.0	5840.9	5882.8	6396.5	7296.8	6861.4	5945.2
40°	6769.6	6775.2	6714.0	6536.0	6378.4	6348.9	6454.3	6945.3	8075.9	7643.8	6583.6
42.5°	7291.2	7302.5	7199.3	7034.9	6919.2	6924.9	7045.1	7588.3	8969.4	8565.7	7318.4
45°	7909.2	7926.2	7812.8	7597.3	7491.9	7703.9	7654.0	8309.4	9949.1	9613.5	8162.0
47.5°	8555.5	8581.6	8495.4	8293.6	8162.0	8453.5	8263.0	9108.9	11003.7	10737.2	9088.5
50°	8908.2	8945.6	9029.5	9014.8	8986.4	8937.6	8942.2	9966.1	12091.1	11907.4	10041.0
52.5°	8718.8	8717.7	9023.8	9395.8	9792.6	9822.1	9770.0	10869.9	13107.1	13051.5	10937.9
55°	7852.5	7911.4	8375.2	9095.3	10179.3	10856.3	11010.5	11905.1	14105.0	14169.6	11848.4
57.5°	6410.1	6458.9	7084.8	8088.3	9657.7	11470.8	12774.9	13409.9	15220.8	15522.4	13060.6
60°	4347.5	4406.5	5069.8	6275.2	8253.9	11128.4	14454.2	16095.0	16556.5	17242.6	14761.5
62.5°	2554.7	2608.0	3148.9	3958.6	5811.4	9537.5	15191.3	19915.2	18678.1	19838.1	17355.9
65°	1758.7	1795.0	2058.1	2464.0	3339.4	6423.7	14277.3	22552.8	21942.7	23054.0	20364.3
67.5°	1415.1	1410.6	1619.3	1895.9	2149.9	3312.2	10796.2	22254.5	24813.8	25277.6	21925.7
70°	1165.7	1161.1	1302.9	1531.9	1717.9	1865.3	5880.6	18780.2	24228.7	24416.9	20487.9
72.5°	975.2	979.7	1070.4	1240.5	1409.5	1404.9	2584.2	13211.4	19060.2	20362.0	16332.0
75°	823.2	825.5	885.6	1005.8	1144.1	1131.7	1401.5	7157.4	11079.6	11985.7	9053.3
77.5°	700.8	703.0	741.6	808.5	907.1	902.6	1022.8	3092.2	4621.9	4565.2	3096.8
80°	624.8	624.8	642.9	655.4	709.8	689.4	758.6	1485.4	1953.8	1804.1	1236.0
82.5°	489.9	492.1	603.3	598.7	559.0	532.9	532.9	875.4	1035.3	957.0	723.4
85°	275.5	274.4	388.9	469.4	492.1	375.3	371.9	489.9	563.6	496.7	350.4
87.5°	117.9	120.2	180.3	208.6	278.9	233.6	230.2	252.9	286.9	248.3	162.2
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°	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0
2.5°	3201.1	3171.6	3107.0	3026.5	2953.9	2906.3	2863.2	2800.8	2804.2	2761.1	2729.4
5°	3198.8	3137.6	2987.9	2809.9	2638.7	2515.1	2422.1	2338.2	2317.8	2278.1	2254.3
7.5°	3201.1	3101.3	2849.6	2565.0	2352.9	2196.4	2117.0	2072.8	2062.6	2049.0	2050.1
10°	3209.0	3068.4	2697.6	2335.9	2113.6	2010.5	1991.2	2004.8	2020.7	2025.2	2026.3
12.5°	3227.2	3038.9	2530.9	2131.8	1964.0	1932.2	1965.1	2011.6	2042.2	2057.0	2055.8
15°	3268.0	3016.3	2371.0	1971.9	1881.2	1898.2	1959.4	2025.2	2069.4	2089.8	2091.0
17.5°	3312.2	2983.4	2206.6	1849.4	1820.0	1863.0	1939.0	2016.1	2070.6	2093.2	2097.8
20°	3370.0	2942.6	2034.3	1757.6	1762.1	1810.9	1882.3	1959.4	2019.5	2038.8	2047.9
22.5°	3446.0	2898.3	1883.5	1682.8	1696.4	1733.8	1789.3	1856.2	1908.4	1917.5	1925.4
25°	3548.1	2850.7	1763.3	1614.7	1620.4	1641.9	1679.4	1719.0	1755.3	1745.1	1753.1
27.5°	3685.3	2809.9	1673.7	1552.4	1542.1	1546.7	1566.0	1578.4	1597.7	1569.4	1572.8
30°	3846.3	2765.7	1604.5	1497.9	1469.6	1461.6	1466.2	1473.0	1487.7	1449.2	1443.5
32.5°	4033.4	2712.4	1539.9	1450.3	1410.6	1394.7	1397.0	1415.1	1471.8	1448.0	1435.6
35°	4251.1	2652.3	1471.8	1398.1	1370.9	1348.2	1346.0	1402.7	1571.6	1556.9	1545.5
37.5°	4506.2	2592.2	1403.8	1339.2	1341.4	1316.5	1308.6	1373.2	1590.9	1533.1	1525.1
40°	4830.5	2560.4	1346.0	1276.8	1305.2	1301.8	1285.9	1318.8	1463.9	1358.4	1344.8
42.5°	5232.0	2565.0	1302.9	1209.9	1262.1	1298.4	1273.4	1274.5	1326.7	1247.3	1234.9
45°	5727.5	2618.2	1272.3	1156.6	1213.3	1294.9	1268.9	1250.7	1255.3	1213.3	1206.5
47.5°	6305.8	2728.2	1250.7	1112.4	1166.8	1282.5	1267.7	1243.9	1233.7	1211.0	1205.4
50°	6948.7	2888.1	1234.9	1070.4	1124.9	1262.1	1268.9	1237.1	1225.8	1216.7	1213.3
52.5°	7580.3	3070.7	1211.0	1034.1	1092.0	1237.1	1272.3	1230.3	1217.8	1211.0	1207.6
55°	8284.5	3298.6	1174.8	1003.5	1064.8	1205.4	1272.3	1220.1	1206.5	1207.6	1206.5
57.5°	9235.9	3667.1	1131.7	977.4	1031.9	1166.8	1250.7	1208.8	1191.8	1192.9	1194.0
60°	10722.5	4316.9	1079.5	951.4	991.1	1121.5	1221.2	1183.8	1166.8	1171.4	1172.5
62.5°	12908.7	5270.5	1011.5	912.8	948.0	1072.7	1180.4	1152.1	1135.1	1146.4	1146.4
65°	15181.1	6111.9	927.6	864.1	902.6	1019.4	1129.4	1112.4	1095.4	1121.5	1120.3
67.5°	15792.3	5923.7	843.6	810.8	857.3	960.4	1068.2	1059.1	1050.0	1095.4	1093.1
70°	14029.0	4755.7	766.5	756.3	807.4	896.9	1002.4	1002.4	996.7	1030.7	1022.8
72.5°	10688.4	3372.3	692.8	698.5	750.7	827.8	931.0	938.9	929.8	946.8	940.0
75°	5721.8	1930.0	619.1	635.0	680.4	757.5	851.6	859.5	853.9	852.7	856.1
77.5°	1901.6	943.4	542.0	567.0	606.7	684.9	768.8	781.3	767.7	765.4	764.3
80°	847.0	593.0	457.0	489.9	525.0	602.1	681.5	691.7	677.0	697.4	671.3
82.5°	544.3	390.1	366.3	402.5	436.6	519.3	594.2	596.4	582.8	677.0	577.2
85°	264.2	241.5	275.5	308.4	337.9	408.2	492.1	493.3	459.2	418.4	403.7
87.5°	131.5	140.6	183.7	213.2	227.9	280.1	358.3	351.5	336.8	306.2	282.3
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)