

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: P192171

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192171
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-03-LED-E1-T2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17833 lumens
Efficiency: N/A
Efficacy: 107.4 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): 166
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

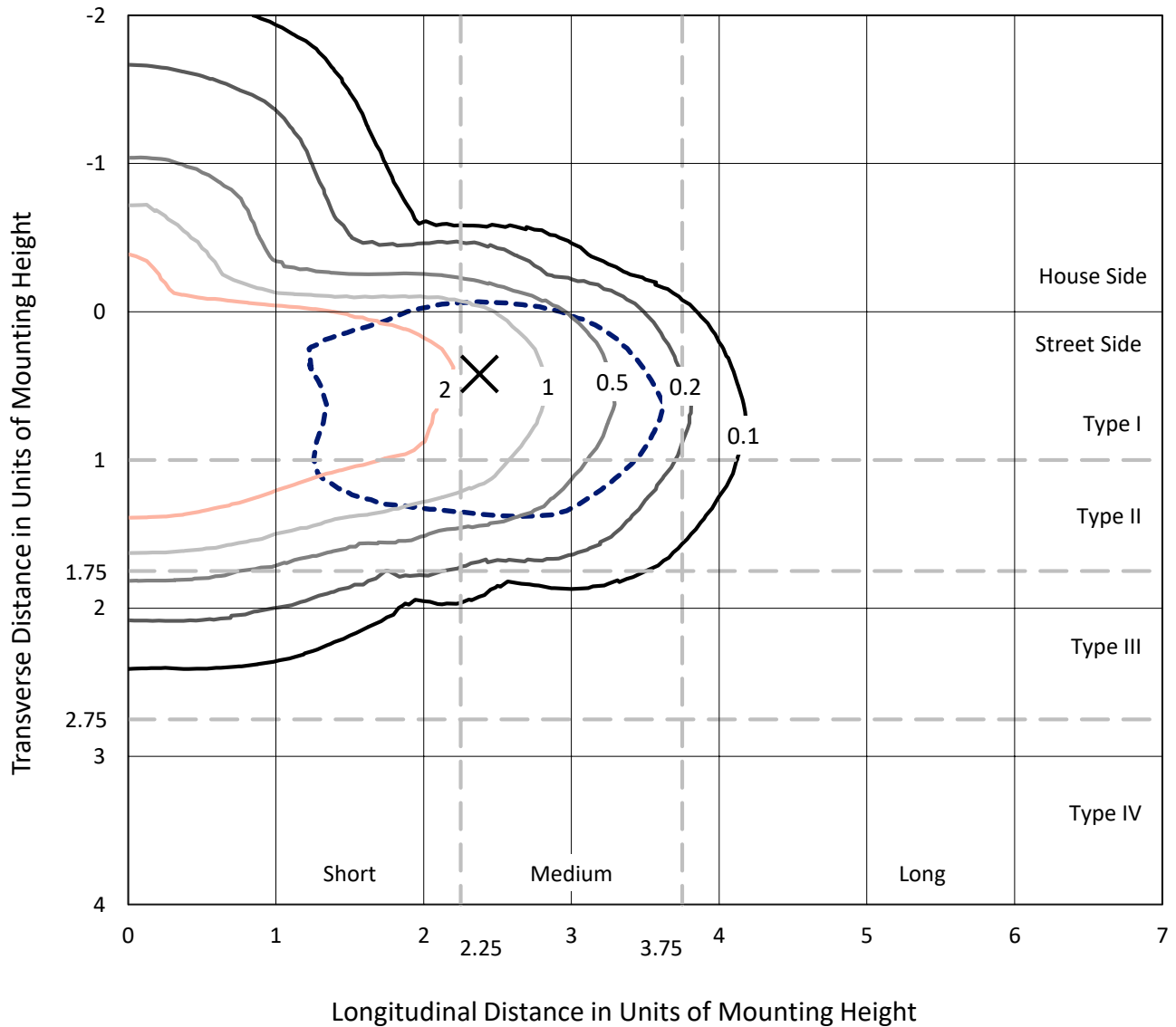


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

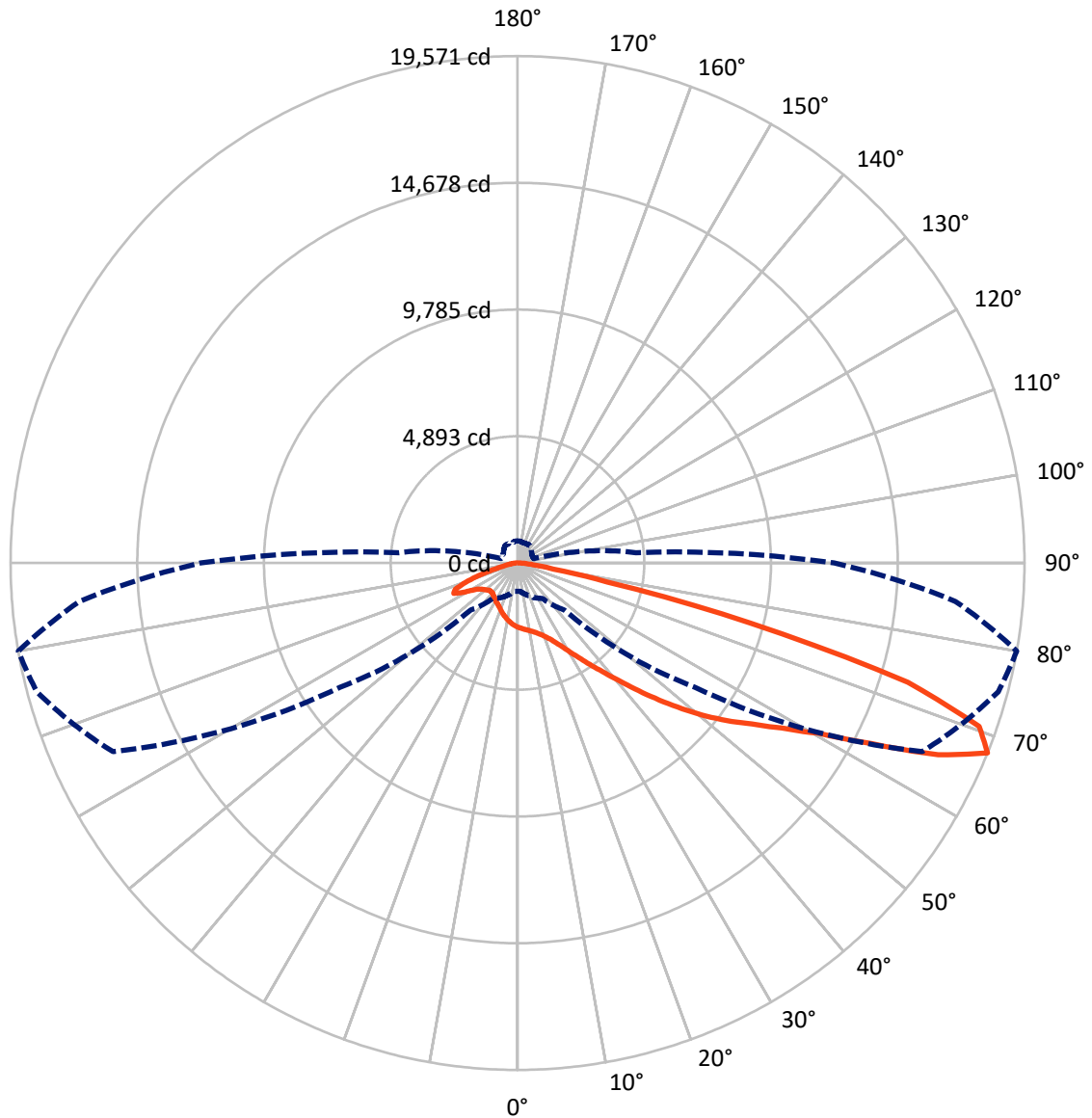


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - Full Cutoff

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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	3284.2	0.0	3284.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	14548.8	0.0	14548.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	17833.0	0.0	17833.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.3
10°-20°	658.4	3.7
20°-30°	1089.7	6.1
30°-40°	1782.5	10.0
40°-50°	2878.0	16.1
50°-60°	4155.1	23.3
60°-70°	4585.4	25.7
70°-80°	2113.6	11.9
80°-90°	341.9	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°	17833.0	100.0
0°-180°	17833.0	100.0



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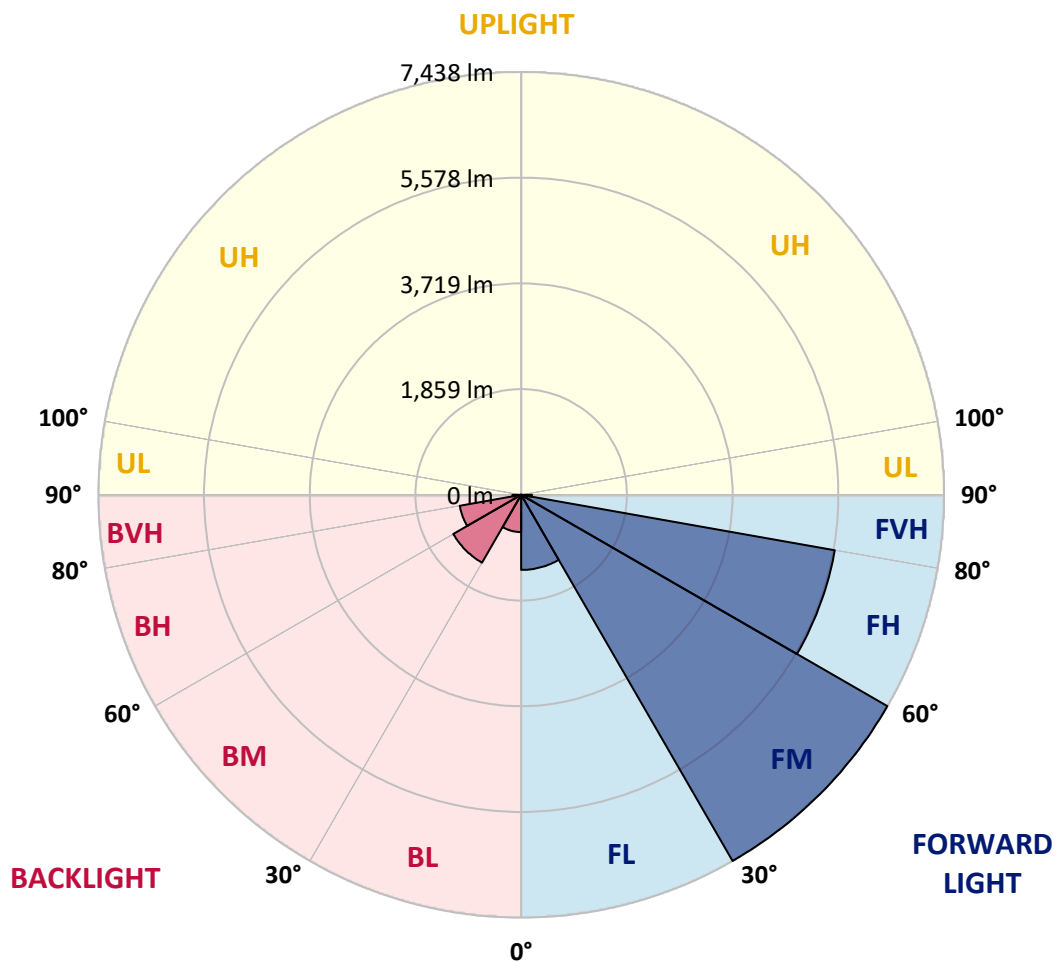
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.4	7.4			
FM (30°-60°)	7437.7	41.7			
FH (60°-80°)	5601.8	31.4			G3/7500
FVH (80°-90°)	188.0	1.1			G2/225
BL (0°-30°)	655.2	3.7	B2/1000		
BM (30°-60°)	1377.9	7.7	B2/2500		
BH (60°-80°)	1097.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	153.9	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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2710.2	2694.4	2697.0	2692.6	2679.4	2656.6	2632.0	2587.3	2540.7	2516.2	2496.8
5°	2936.7	2932.3	2926.1	2912.1	2878.7	2831.3	2772.5	2693.5	2608.3	2563.6	2520.5
7.5°	3106.1	3103.5	3095.6	3086.8	3054.3	2997.3	2908.6	2796.2	2672.4	2611.0	2544.2
10°	3120.2	3124.6	3130.7	3154.4	3158.8	3128.1	3037.6	2901.6	2739.1	2660.1	2575.0
12.5°	3000.8	3010.4	3034.1	3094.7	3158.8	3196.5	3150.0	3012.2	2817.3	2721.6	2613.6
15°	2842.7	2848.0	2877.0	2960.4	3075.4	3192.2	3236.1	3134.2	2918.2	2800.6	2671.5
17.5°	2775.1	2777.8	2798.0	2853.3	2960.4	3127.2	3284.3	3266.8	3042.0	2898.9	2742.7
20°	2740.9	2747.0	2776.0	2830.5	2898.1	3043.8	3291.4	3409.9	3189.5	3021.8	2832.2
22.5°	2838.4	2835.7	2846.3	2873.5	2930.5	3018.3	3286.1	3557.4	3377.4	3179.9	2949.0
25°	3065.7	3075.4	3057.0	3026.2	3044.7	3106.1	3314.2	3717.2	3612.7	3382.7	3101.7
27.5°	3389.7	3380.0	3352.8	3280.8	3243.1	3269.4	3407.3	3889.2	3905.0	3649.6	3303.7
30°	3712.8	3704.9	3678.5	3590.7	3513.5	3491.5	3588.1	4086.8	4253.6	3970.0	3551.2
32.5°	4048.1	4039.4	4014.8	3927.0	3833.9	3783.0	3845.3	4315.0	4664.4	4352.8	3842.7
35°	4461.6	4445.0	4393.2	4271.1	4179.8	4140.3	4169.3	4602.1	5138.5	4805.8	4196.5
37.5°	4850.6	4876.0	4823.4	4654.8	4536.3	4522.2	4554.7	4952.4	5649.5	5312.4	4603.0
40°	5241.3	5245.6	5198.2	5060.4	4938.4	4915.5	4997.2	5377.3	6252.6	5918.1	5097.3
42.5°	5645.1	5653.9	5574.0	5446.7	5357.1	5361.5	5454.6	5875.1	6944.4	6631.9	5666.2
45°	6123.6	6136.7	6048.9	5882.1	5800.5	5964.7	5926.0	6433.5	7703.0	7443.1	6319.4
47.5°	6624.0	6644.2	6577.5	6421.2	6319.4	6545.0	6397.5	7052.4	8519.4	8313.1	7036.6
50°	6897.0	6926.0	6991.0	6979.6	6957.6	6919.9	6923.4	7716.1	9361.4	9219.2	7774.1
52.5°	6750.4	6749.5	6986.6	7274.5	7581.8	7604.6	7564.3	8415.9	10148.0	10105.0	8468.5
55°	6079.7	6125.3	6484.4	7041.9	7881.2	8405.3	8524.7	9217.4	10920.6	10970.6	9173.5
57.5°	4962.9	5000.7	5485.3	6262.3	7477.3	8881.2	9890.8	10382.4	11784.5	12018.0	10112.0
60°	3366.0	3411.6	3925.2	4858.5	6390.5	8616.0	11191.0	12461.4	12818.7	13349.8	11428.9
62.5°	1978.0	2019.2	2438.0	3064.9	4499.4	7384.3	11761.6	15419.1	14461.3	15359.4	13437.6
65°	1361.7	1389.8	1593.4	1907.7	2585.5	4973.5	11054.0	17461.2	16988.9	17849.2	15766.8
67.5°	1095.7	1092.1	1253.7	1467.9	1664.6	2564.4	8358.8	17230.3	19211.8	19570.8	16975.7
70°	902.5	899.0	1008.7	1186.1	1330.1	1444.2	4553.0	14540.3	18758.8	18904.5	15862.5
72.5°	755.0	758.5	828.8	960.5	1091.3	1087.8	2000.8	10228.8	14757.1	15765.0	12644.8
75°	637.4	639.1	685.7	778.7	885.8	876.2	1085.1	5541.5	8578.3	9279.7	7009.4
77.5°	542.6	544.3	574.2	626.0	702.3	698.8	791.9	2394.1	3578.4	3534.6	2397.6
80°	483.7	483.7	497.8	507.4	549.6	533.8	587.3	1150.1	1512.7	1396.8	956.9
82.5°	379.3	381.0	467.1	463.5	432.8	412.6	412.6	677.8	801.6	741.0	560.1
85°	213.3	212.5	301.1	363.5	381.0	290.6	288.0	379.3	436.3	384.5	271.3
87.5°	91.3	93.1	139.6	161.5	216.0	180.9	178.2	195.8	222.1	192.3	125.5
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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2478.4	2455.6	2405.5	2343.2	2287.0	2250.1	2216.8	2168.5	2171.1	2137.8	2113.2
5°	2476.6	2429.2	2313.3	2175.5	2042.9	1947.3	1875.3	1810.3	1794.5	1763.8	1745.3
7.5°	2478.4	2401.1	2206.2	1985.9	1821.7	1700.6	1639.1	1604.9	1597.0	1586.4	1587.3
10°	2484.5	2375.7	2088.6	1808.5	1636.5	1556.6	1541.6	1552.2	1564.5	1568.0	1568.9
12.5°	2498.6	2352.9	1959.5	1650.5	1520.6	1496.0	1521.5	1557.5	1581.2	1592.6	1591.7
15°	2530.2	2335.3	1835.8	1526.7	1456.5	1469.7	1517.1	1568.0	1602.2	1618.0	1618.9
17.5°	2564.4	2309.8	1708.5	1431.9	1409.1	1442.4	1501.3	1561.0	1603.1	1620.7	1624.2
20°	2609.2	2278.2	1575.0	1360.8	1364.3	1402.1	1457.4	1517.1	1563.6	1578.5	1585.5
22.5°	2668.0	2244.0	1458.2	1302.9	1313.4	1342.4	1385.4	1437.2	1477.6	1484.6	1490.7
25°	2747.0	2207.1	1365.2	1250.2	1254.6	1271.2	1300.2	1330.9	1359.0	1351.1	1357.3
27.5°	2853.3	2175.5	1295.8	1201.9	1194.0	1197.5	1212.4	1222.1	1237.0	1215.1	1217.7
30°	2977.9	2141.3	1242.3	1159.7	1137.8	1131.7	1135.2	1140.4	1151.8	1122.0	1117.6
32.5°	3122.8	2100.0	1192.2	1122.9	1092.1	1079.9	1081.6	1095.7	1139.6	1121.1	1111.5
35°	3291.4	2053.5	1139.6	1082.5	1061.4	1043.9	1042.1	1086.0	1216.8	1205.4	1196.6
37.5°	3488.9	2007.0	1086.9	1036.8	1038.6	1019.3	1013.1	1063.2	1231.7	1187.0	1180.8
40°	3740.0	1982.4	1042.1	988.6	1010.5	1007.9	995.6	1021.0	1133.4	1051.8	1041.2
42.5°	4050.8	1985.9	1008.7	936.8	977.1	1005.2	985.9	986.8	1027.2	965.7	956.1
45°	4434.4	2027.1	985.0	895.5	939.4	1002.6	982.4	968.4	971.9	939.4	934.1
47.5°	4882.2	2112.3	968.4	861.3	903.4	992.9	981.5	963.1	955.2	937.6	933.2
50°	5380.0	2236.1	956.1	828.8	870.9	977.1	982.4	957.8	949.0	942.0	939.4
52.5°	5869.0	2377.4	937.6	800.7	845.4	957.8	985.0	952.6	942.9	937.6	935.0
55°	6414.2	2553.9	909.5	777.0	824.4	933.2	985.0	944.7	934.1	935.0	934.1
57.5°	7150.8	2839.2	876.2	756.8	798.9	903.4	968.4	935.9	922.7	923.6	924.5
60°	8301.7	3342.3	835.8	736.6	767.3	868.3	945.5	916.6	903.4	906.9	907.8
62.5°	9994.4	4080.6	783.1	706.7	734.0	830.5	913.9	892.0	878.8	887.6	887.6
65°	11753.7	4732.1	718.1	669.0	698.8	789.3	874.4	861.3	848.1	868.3	867.4
67.5°	12227.0	4586.3	653.2	627.7	663.7	743.6	827.0	820.0	813.0	848.1	846.3
70°	10861.8	3682.0	593.5	585.6	625.1	694.4	776.1	776.1	771.7	798.0	791.9
72.5°	8275.4	2611.0	536.4	540.8	581.2	640.9	720.8	726.9	719.9	733.1	727.8
75°	4430.0	1494.2	479.4	491.6	526.8	586.5	659.3	665.5	661.1	660.2	662.8
77.5°	1472.3	730.4	419.7	439.0	469.7	530.3	595.2	604.9	594.4	592.6	591.7
80°	655.8	459.2	353.8	379.3	406.5	466.2	527.6	535.5	524.1	539.9	519.7
82.5°	421.4	302.0	283.6	311.7	338.0	402.1	460.0	461.8	451.3	524.1	446.9
85°	204.6	187.0	213.3	238.8	261.6	316.1	381.0	381.9	355.6	324.0	312.5
87.5°	101.8	108.9	142.2	165.1	176.5	216.8	277.4	272.2	260.7	237.0	218.6
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)