

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: P194083

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T4FT-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26791 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

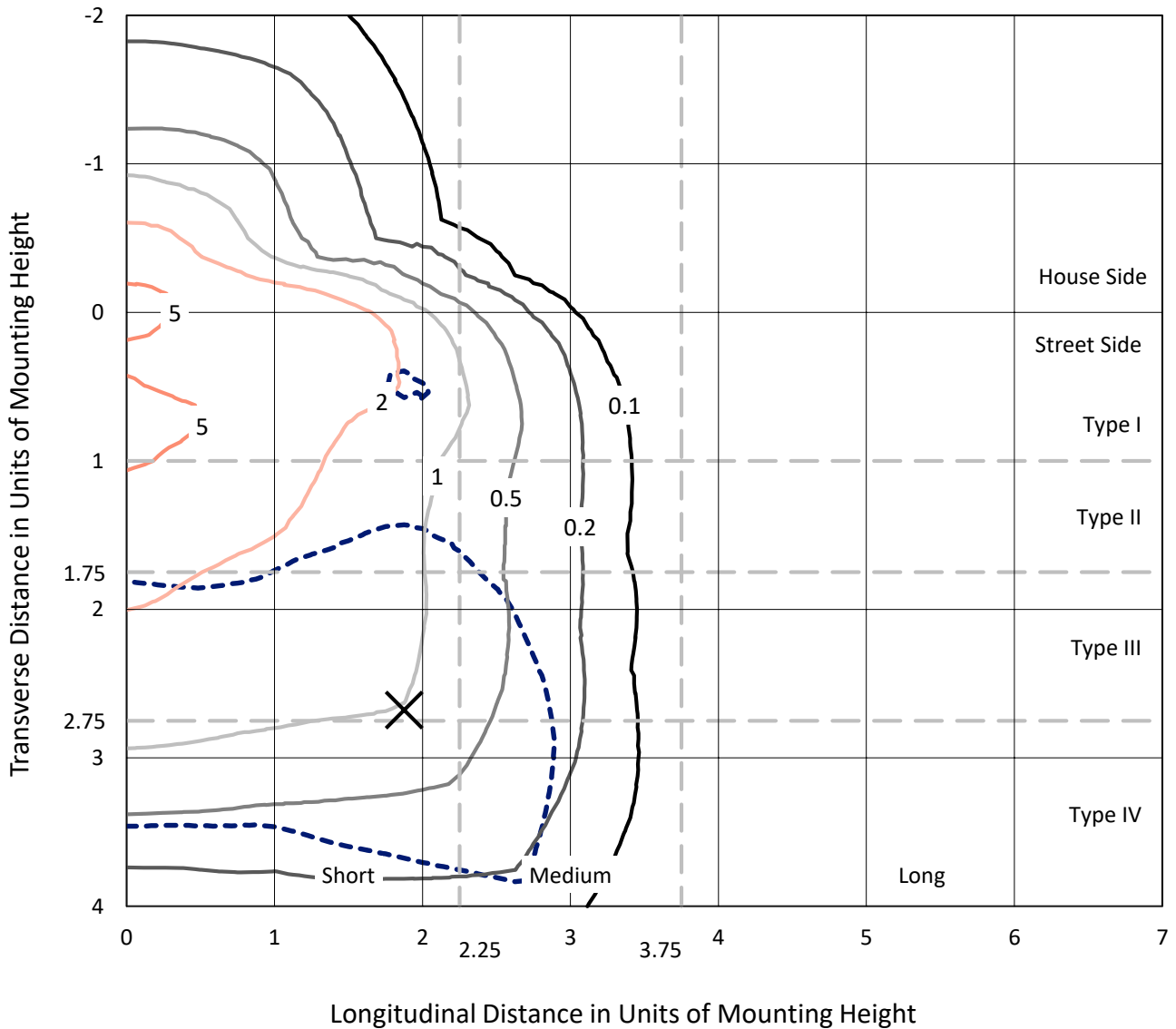
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

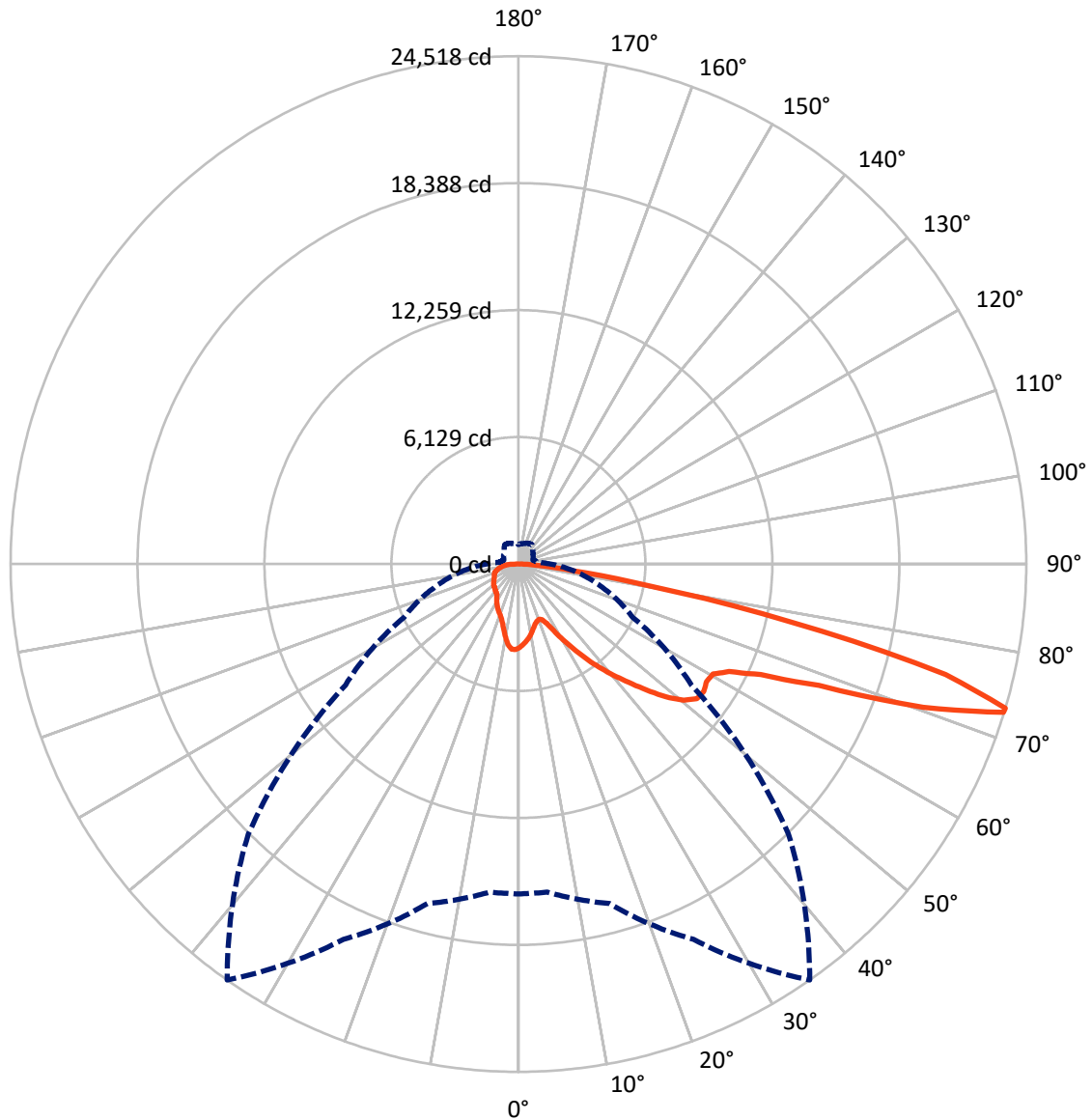


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5109.8	0.0	5109.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	21681.2	0.0	21681.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	26791.0	0.0	26791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.4
10°-20°	913.6	3.4
20°-30°	1477.0	5.5
30°-40°	2476.8	9.2
40°-50°	3817.8	14.3
50°-60°	5122.0	19.1
60°-70°	6823.5	25.5
70°-80°	5204.3	19.4
80°-90°	589.9	2.2
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°	26791.0	100.0
0°-180°	26791.0	100.0



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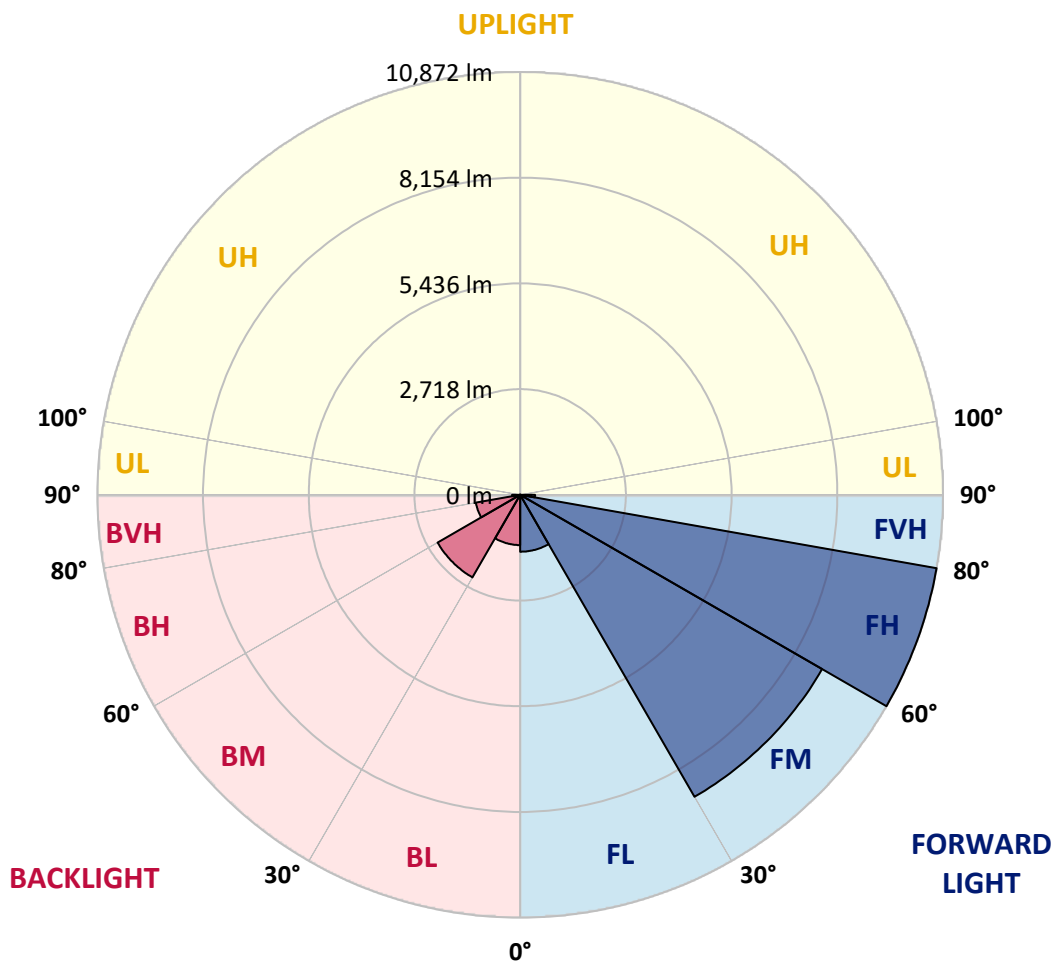
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1463.7	5.5			
FM	(30°-60°)	8964.4	33.5			
FH	(60°-80°)	10871.8	40.6			G4/12000
FVH	(80°-90°)	381.3	1.4			G3/500
BL	(0°-30°)	1293.0	4.8	B3/2500		
BM	(30°-60°)	2452.1	9.2	B2/2500		
BH	(60°-80°)	1156.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	208.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	3884.1	3891.8	3882.8	3894.4	3913.7	3934.2	3948.4	3969.0	3992.1	4024.3	4032.0
5°	3701.4	3713.0	3713.0	3733.5	3770.8	3804.3	3835.2	3868.6	3917.5	3972.8	3994.7
7.5°	3500.7	3507.1	3518.7	3549.6	3603.6	3651.2	3694.9	3749.0	3815.9	3889.2	3927.8
10°	3258.8	3267.8	3285.8	3329.6	3402.9	3468.5	3531.6	3606.2	3691.1	3782.4	3831.3
12.5°	3087.7	3085.1	3092.8	3125.0	3189.3	3269.1	3360.4	3455.6	3559.9	3666.6	3725.8
15°	3029.8	3015.6	2986.1	2978.3	3013.1	3092.8	3198.3	3315.4	3440.2	3568.9	3642.2
17.5°	3065.8	3041.4	2960.3	2901.1	2896.0	2956.5	3068.4	3199.6	3343.7	3500.7	3592.0
20°	3292.3	3234.4	3034.9	2897.3	2849.7	2879.3	2977.1	3116.0	3285.8	3494.2	3611.3
22.5°	3833.9	3749.0	3325.7	3069.7	2908.9	2872.8	2946.2	3094.1	3292.3	3574.0	3723.2
25°	4622.5	4501.6	3824.9	3499.4	3167.5	2975.8	2992.5	3144.3	3383.6	3759.3	3939.4
27.5°	5245.2	5166.7	4477.2	4105.3	3638.3	3253.7	3143.0	3270.4	3570.1	4062.9	4246.9
30°	5615.7	5568.1	5174.5	4792.4	4239.1	3696.2	3431.2	3507.1	3862.2	4483.6	4635.4
32.5°	6045.4	6017.1	5824.2	5472.9	4887.6	4277.7	3887.9	3860.9	4253.3	4989.2	5058.7
35°	6490.6	6481.6	6368.4	6116.2	5583.6	5044.5	4493.9	4311.2	4679.1	5514.1	5470.4
37.5°	6904.9	6889.4	6823.8	6677.1	6311.8	5867.9	5111.4	4773.1	5138.4	6015.9	5821.6
40°	7667.8	7546.8	7321.7	7211.1	7047.7	6561.4	5601.6	5204.1	5614.5	6494.5	6125.2
42.5°	8597.9	8401.1	7981.7	7829.9	7806.7	7108.1	5936.1	5622.2	6094.3	6969.2	6423.7
45°	9330.0	9144.7	8783.2	8591.5	8676.4	7603.4	6271.9	6068.6	6588.4	7467.1	6731.2
47.5°	10110.9	9820.2	9341.6	9399.5	9584.7	8071.7	6614.1	6548.5	7130.0	8024.1	7113.3
50°	10139.2	9916.6	9706.9	10053.0	10341.2	8502.7	7042.5	7051.5	7792.6	8725.3	7621.5
52.5°	9551.3	9503.7	9836.9	10381.1	10796.6	8843.7	7530.1	7571.3	8640.4	9530.7	8179.8
55°	9345.4	9291.4	9676.1	10266.6	10858.4	9125.4	8058.9	8133.5	9665.8	10379.8	8724.0
57.5°	9847.2	9727.5	9753.3	10212.6	10707.9	9434.2	8635.3	8785.8	10779.9	11122.1	9074.0
60°	11249.5	10993.5	10507.2	10495.6	10788.9	9897.3	9301.7	9485.7	11937.8	11477.2	8937.6
62.5°	13216.6	12960.6	12049.7	11456.6	11412.9	10661.6	10119.9	10168.8	12606.8	10996.1	8105.2
65°	15345.8	15116.8	14099.2	13261.7	12857.7	11927.5	11070.7	10473.7	12388.1	9672.2	6648.8
67.5°	17930.5	17684.8	16809.9	16036.7	15648.2	13970.5	11738.4	10181.7	10999.9	7492.8	4779.5
70°	19738.1	19487.2	19142.4	19769.0	20719.7	16918.0	11824.6	8994.2	8215.8	4980.2	2876.7
72.5°	17379.9	17262.8	17891.9	20530.6	24490.6	18706.3	10688.6	6548.5	4771.8	2643.8	1664.8
73°	15923.5	15897.8	16970.7	19996.7	24517.6	18431.0	10190.7	6086.6	4092.5	2338.9	1522.0
75°	7190.5	7397.6	9749.4	15273.8	21301.2	15187.6	7172.5	3491.7	2311.9	1615.9	1148.9
77.5°	1727.8	1799.9	3050.4	7253.5	13452.1	9050.8	3249.8	1726.5	1478.2	1141.2	838.8
80°	735.9	760.3	1174.6	2679.9	6333.6	3644.8	1497.5	1156.6	1022.8	796.4	587.9
82.5°	409.1	434.9	666.4	1215.8	2556.4	1242.8	913.4	805.4	672.9	479.9	382.1
85°	231.6	245.7	389.8	679.3	1083.3	499.2	546.8	535.2	379.5	247.0	187.8
87.5°	109.4	118.4	187.8	315.2	424.6	195.6	277.9	306.2	238.0	150.5	97.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	4041.0	4064.2	4091.2	4105.3	4118.2	4133.7	4149.1	4149.1	4151.7	4153.0
5°	4012.7	4060.3	4102.8	4120.8	4124.6	4124.6	4120.8	4100.2	4082.2	4089.9
7.5°	3953.5	4023.0	4059.0	4052.6	4003.7	3947.1	3899.5	3841.6	3812.0	3806.9
10°	3868.6	3948.4	3954.8	3890.5	3769.6	3648.6	3548.3	3450.5	3404.2	3392.6
12.5°	3774.7	3848.0	3806.9	3674.4	3480.1	3303.8	3176.5	3077.4	3033.7	3022.1
15°	3698.8	3749.0	3644.8	3436.3	3191.9	3005.4	2899.9	2826.5	2795.7	2786.6
17.5°	3658.9	3669.2	3478.8	3197.1	2937.2	2781.5	2715.9	2681.1	2669.6	2663.1
20°	3678.2	3606.2	3320.6	2974.5	2728.8	2619.4	2604.0	2595.0	2592.4	2588.5
22.5°	3774.7	3586.9	3175.2	2763.5	2546.1	2498.5	2511.3	2510.0	2507.5	2504.9
25°	3947.1	3603.6	3033.7	2562.8	2393.0	2382.7	2405.8	2405.8	2395.5	2395.5
27.5°	4174.8	3638.3	2875.4	2372.4	2254.0	2255.3	2273.3	2268.2	2256.6	2248.9
30°	4452.7	3660.2	2690.2	2201.3	2124.1	2118.9	2124.1	2102.2	2067.5	2064.9
32.5°	4737.0	3633.2	2475.3	2049.5	1986.4	1974.8	1971.0	1940.1	1900.2	1888.6
35°	4994.3	3534.1	2256.6	1928.5	1855.2	1829.5	1847.5	1837.2	1801.2	1792.1
37.5°	5182.2	3350.1	2059.7	1821.7	1761.3	1754.8	1766.4	1770.3	1727.8	1718.8
40°	5308.3	3100.6	1891.2	1731.7	1743.3	1718.8	1680.2	1653.2	1640.3	1636.5
42.5°	5409.9	2840.7	1749.7	1689.2	1747.1	1676.4	1592.7	1549.0	1572.2	1582.4
45°	5527.0	2587.2	1631.3	1636.5	1727.8	1627.5	1532.3	1489.8	1498.8	1501.4
47.5°	5687.8	2278.5	1504.0	1551.6	1663.5	1594.0	1495.0	1434.5	1392.0	1372.7
50°	5910.4	1913.1	1371.5	1456.4	1600.5	1569.6	1437.1	1372.7	1294.3	1276.2
52.5°	6064.7	1572.2	1262.1	1376.6	1543.8	1520.7	1390.7	1307.1	1224.8	1209.3
55°	5981.1	1305.8	1166.9	1287.8	1469.2	1460.2	1352.2	1240.2	1175.9	1163.0
57.5°	5563.0	1137.3	1093.6	1204.2	1377.9	1408.8	1300.7	1183.6	1137.3	1128.3
60°	4765.3	1031.8	1047.2	1147.6	1303.3	1357.3	1249.2	1152.7	1121.9	1115.4
62.5°	3697.5	961.0	1012.5	1106.4	1245.4	1321.3	1220.9	1148.9	1137.3	1129.6
65°	2649.0	904.4	975.2	1065.3	1192.6	1287.8	1210.6	1143.7	1146.3	1139.9
67.5°	1799.9	854.3	930.2	1018.9	1141.2	1258.2	1196.5	1125.7	1157.9	1150.2
70°	1259.5	805.4	877.4	959.8	1076.8	1217.1	1170.8	1098.7	1096.1	1065.3
72.5°	982.9	741.0	805.4	877.4	994.5	1159.2	1119.3	1038.2	995.8	963.6
73°	937.9	725.6	787.4	859.4	976.5	1145.0	1105.1	1021.5	973.9	944.3
75°	775.8	658.7	715.3	779.6	899.3	1078.1	1035.7	945.6	885.1	867.1
77.5°	609.8	563.5	617.5	675.4	792.5	980.3	932.7	846.5	813.1	797.7
80°	451.6	467.0	514.6	566.1	687.0	876.1	833.7	747.5	896.7	859.4
82.5°	317.8	353.8	397.5	443.9	576.4	774.5	723.0	634.3	656.1	545.5
85°	187.8	231.6	272.7	312.6	415.6	642.0	597.0	505.6	414.3	395.0
87.5°	109.4	128.7	140.2	181.4	285.6	483.7	420.7	374.4	214.9	145.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)