

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: P193912

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193912
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19227 lumens
Efficiency: N/A
Efficacy: 85.5 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): 225
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

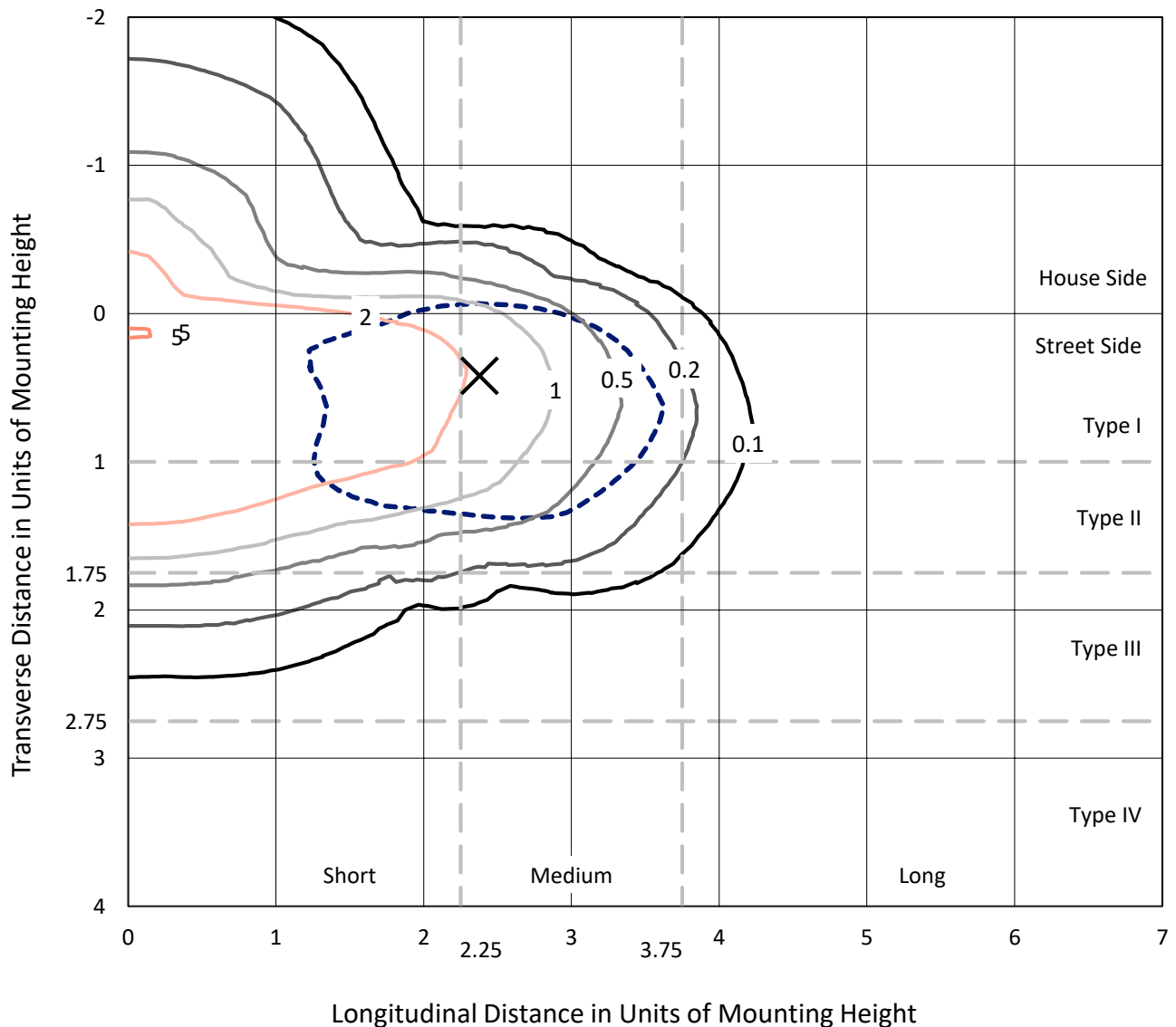


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

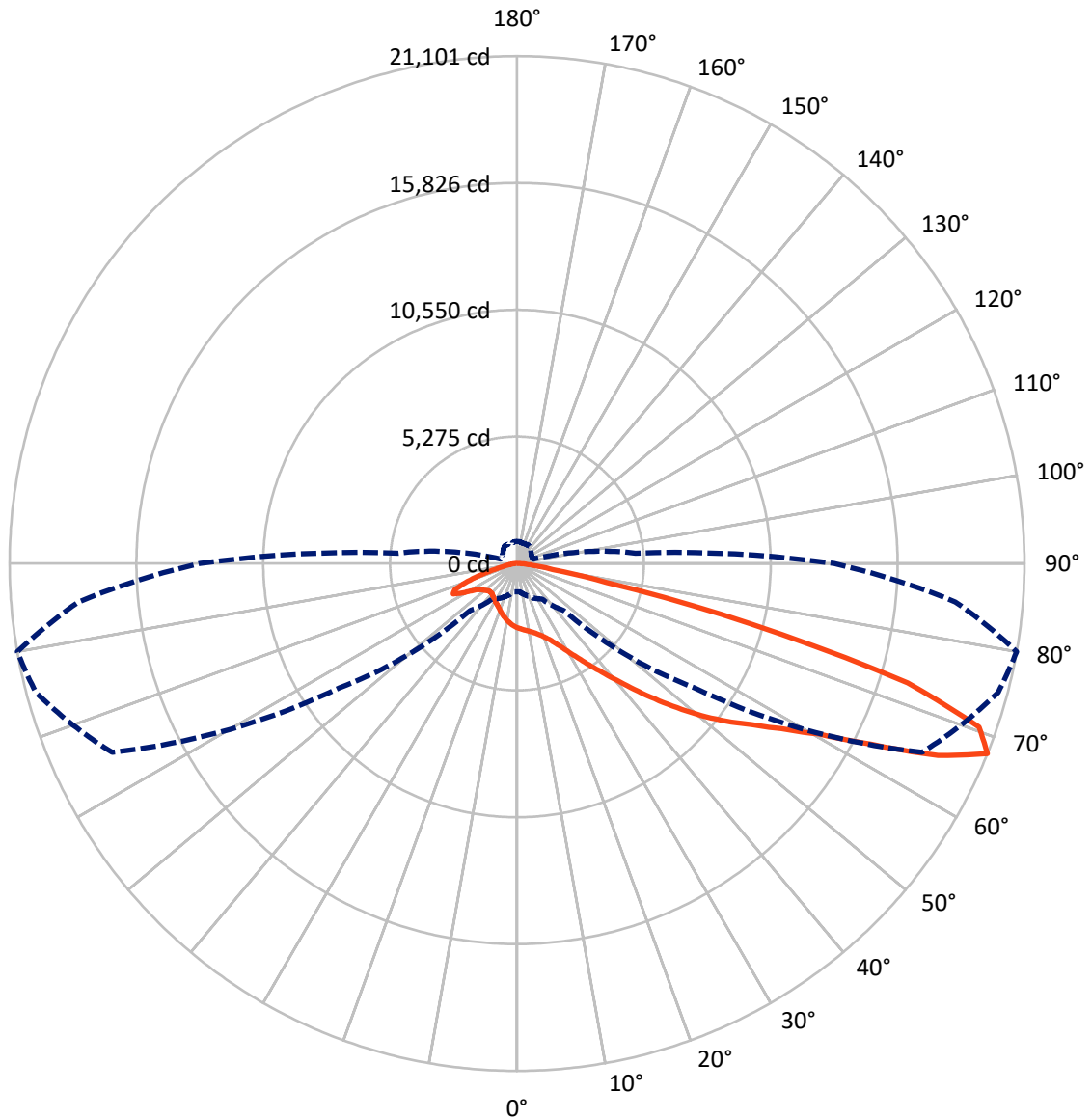


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Full Cutoff

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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	3540.9	0.0	3540.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15686.1	0.0	15686.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	19227.0	0.0	19227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.3
10°-20°	709.8	3.7
20°-30°	1174.9	6.1
30°-40°	1921.8	10.0
40°-50°	3103.0	16.1
50°-60°	4479.8	23.3
60°-70°	4943.8	25.7
70°-80°	2278.8	11.9
80°-90°	368.6	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°	19227.0	100.0
0°-180°	19227.0	100.0



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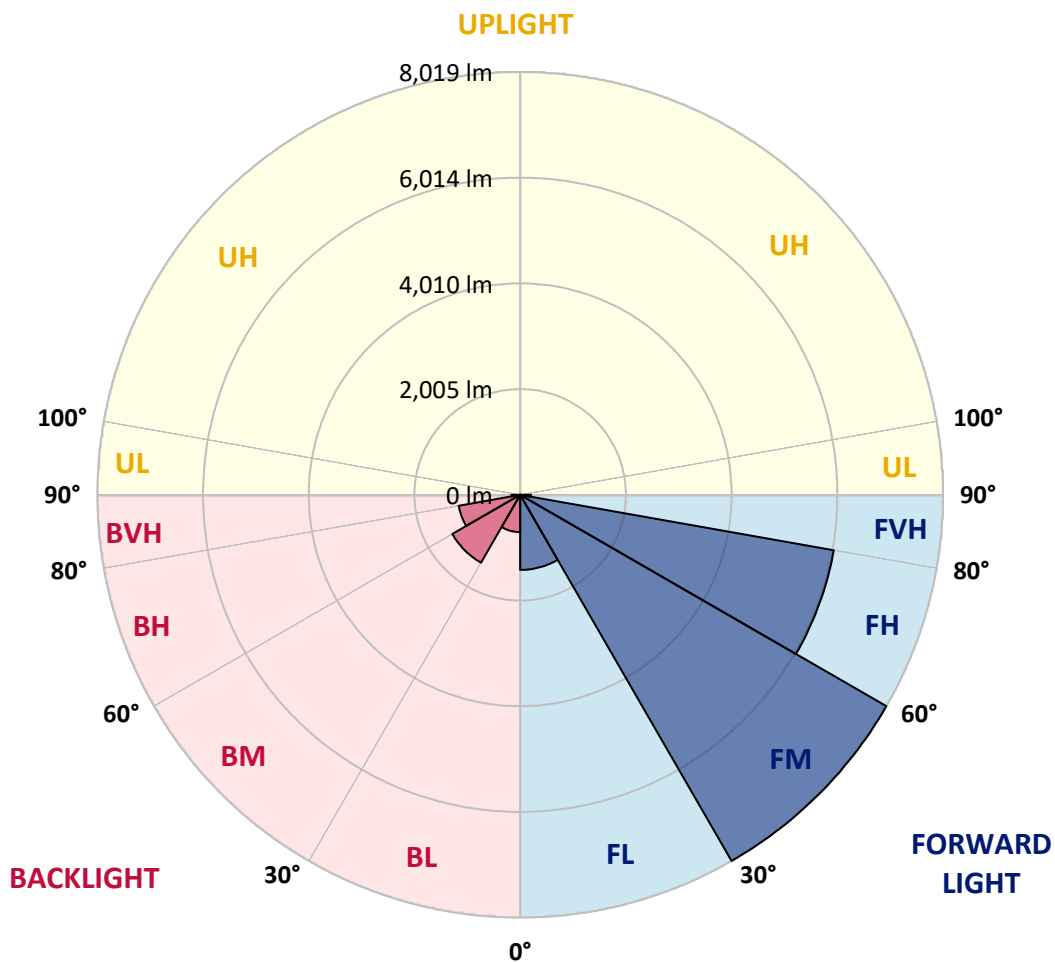
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.7	7.4			
FM (30°-60°)	8019.1	41.7			
FH (60°-80°)	6039.7	31.4			G3/7500
FVH (80°-90°)	202.6	1.1			G2/225
BL (0°-30°)	706.5	3.7	B2/1000		
BM (30°-60°)	1485.6	7.7	B2/2500		
BH (60°-80°)	1182.9	6.2	B3/2500		G3/2500
BVH (80°-90°)	165.9	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°	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2
2.5°	2922.0	2905.0	2907.8	2903.1	2888.9	2864.3	2837.8	2789.5	2739.3	2712.8	2692.0
5°	3166.2	3161.5	3154.9	3139.7	3103.8	3052.7	2989.2	2904.0	2812.2	2764.0	2717.6
7.5°	3348.9	3346.1	3337.6	3328.1	3293.1	3231.6	3135.9	3014.8	2881.3	2815.1	2743.1
10°	3364.1	3368.8	3375.4	3401.0	3405.7	3372.6	3275.1	3128.4	2953.3	2868.1	2776.3
12.5°	3235.3	3245.8	3271.3	3336.6	3405.7	3446.4	3396.3	3247.6	3037.5	2934.3	2817.9
15°	3065.0	3070.6	3101.9	3191.8	3315.8	3441.7	3489.0	3379.2	3146.4	3019.5	2880.4
17.5°	2992.1	2994.9	3016.7	3076.3	3191.8	3371.6	3541.1	3522.1	3279.8	3125.5	2957.1
20°	2955.2	2961.8	2993.0	3051.7	3124.6	3281.7	3548.6	3676.4	3438.8	3258.1	3053.6
22.5°	3060.2	3057.4	3068.7	3098.1	3159.6	3254.3	3543.0	3835.5	3641.4	3428.4	3179.5
25°	3305.4	3315.8	3295.9	3262.8	3282.7	3348.9	3573.3	4007.7	3895.1	3647.1	3344.2
27.5°	3654.7	3644.3	3614.9	3537.3	3496.6	3525.0	3673.6	4193.3	4210.3	3934.8	3561.9
30°	4003.0	3994.5	3966.1	3871.4	3788.1	3764.5	3868.6	4406.2	4586.1	4280.3	3828.8
32.5°	4364.6	4355.1	4328.6	4234.0	4133.6	4078.7	4145.9	4652.3	5029.1	4693.0	4143.1
35°	4810.4	4792.4	4736.6	4605.0	4506.6	4464.0	4495.2	4961.9	5540.2	5181.5	4524.6
37.5°	5229.7	5257.2	5200.4	5018.7	4890.9	4875.7	4910.7	5339.5	6091.1	5727.6	4962.8
40°	5651.0	5655.7	5604.6	5456.0	5324.4	5299.8	5387.8	5797.7	6741.4	6380.8	5495.7
42.5°	6086.4	6095.8	6009.7	5872.5	5775.9	5780.6	5881.0	6334.4	7487.3	7150.3	6109.1
45°	6602.2	6616.4	6521.8	6341.9	6253.9	6430.9	6389.3	6936.4	8305.1	8024.9	6813.3
47.5°	7141.8	7163.6	7091.6	6923.1	6813.3	7056.6	6897.6	7603.7	9185.4	8963.0	7586.7
50°	7436.2	7467.4	7537.4	7525.1	7501.5	7460.8	7464.6	8319.3	10093.2	9939.8	8381.8
52.5°	7278.1	7277.1	7532.7	7843.2	8174.5	8199.1	8155.6	9073.7	10941.3	10894.9	9130.5
55°	6554.9	6604.1	6991.3	7592.3	8497.3	9062.4	9191.1	9937.9	11774.2	11828.2	9890.6
57.5°	5350.9	5391.6	5914.1	6751.8	8061.8	9575.4	10663.9	11194.0	12705.7	12957.4	10902.5
60°	3629.1	3678.3	4232.1	5238.3	6890.0	9289.5	12065.8	13435.5	13820.7	14393.4	12322.3
62.5°	2132.6	2177.1	2628.6	3304.4	4851.1	7961.5	12681.1	16624.4	15591.7	16560.0	14488.0
65°	1468.1	1498.4	1718.0	2056.9	2787.6	5362.3	11918.1	18826.1	18316.9	19244.5	16999.3
67.5°	1181.3	1177.5	1351.7	1582.6	1794.7	2764.9	9012.2	18577.2	20713.6	21100.7	18302.7
70°	973.1	969.3	1087.6	1278.8	1434.0	1557.1	4908.9	15676.9	20225.1	20382.3	17102.4
72.5°	814.0	817.8	893.6	1035.5	1176.6	1172.8	2157.2	11028.4	15910.7	16997.4	13633.3
75°	687.2	689.1	739.3	839.6	955.1	944.7	1169.9	5974.7	9248.8	10005.1	7557.3
77.5°	585.0	586.9	619.0	674.9	757.2	753.5	853.8	2581.3	3858.2	3810.8	2585.1
80°	521.6	521.6	536.7	547.1	592.5	575.5	633.2	1240.0	1630.9	1506.0	1031.7
82.5°	408.9	410.8	503.6	499.8	466.7	444.9	444.9	730.7	864.2	798.9	603.9
85°	230.0	229.1	324.7	391.9	410.8	313.3	310.5	408.9	470.4	414.6	292.5
87.5°	98.4	100.3	150.5	174.2	232.9	195.0	192.2	211.1	239.5	207.3	135.4
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°	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2
2.5°	2672.1	2647.5	2593.6	2526.4	2465.8	2426.0	2390.1	2338.0	2340.8	2304.9	2278.4
5°	2670.2	2619.1	2494.2	2345.6	2202.6	2099.5	2021.9	1951.8	1934.8	1901.6	1881.8
7.5°	2672.1	2588.8	2378.7	2141.1	1964.1	1833.5	1767.2	1730.3	1721.8	1710.4	1711.4
10°	2678.8	2561.4	2251.9	1949.9	1764.4	1678.2	1662.2	1673.5	1686.8	1690.6	1691.5
12.5°	2693.9	2536.8	2112.7	1779.5	1639.4	1612.9	1640.4	1679.2	1704.8	1717.1	1716.1
15°	2728.0	2517.8	1979.3	1646.1	1570.3	1584.5	1635.7	1690.6	1727.5	1744.5	1745.5
17.5°	2764.9	2490.4	1842.0	1543.8	1519.2	1555.2	1618.6	1683.0	1728.4	1747.3	1751.1
20°	2813.2	2456.3	1698.1	1467.2	1471.0	1511.7	1571.3	1635.7	1685.8	1701.9	1709.5
22.5°	2876.6	2419.4	1572.2	1404.7	1416.1	1447.3	1493.7	1549.5	1593.1	1600.6	1607.3
25°	2961.8	2379.6	1471.9	1347.9	1352.6	1370.6	1401.9	1435.0	1465.3	1456.8	1463.4
27.5°	3076.3	2345.6	1397.1	1295.8	1287.3	1291.1	1307.2	1317.6	1333.7	1310.0	1312.9
30°	3210.7	2308.7	1339.4	1250.4	1226.7	1220.1	1223.9	1229.6	1241.9	1209.7	1205.0
32.5°	3366.9	2264.2	1285.4	1210.6	1177.5	1164.3	1166.2	1181.3	1228.6	1208.8	1198.3
35°	3548.6	2214.0	1228.6	1167.1	1144.4	1125.5	1123.6	1170.9	1311.9	1299.6	1290.2
37.5°	3761.6	2163.8	1171.8	1117.9	1119.8	1099.0	1092.3	1146.3	1328.0	1279.7	1273.1
40°	4032.3	2137.3	1123.6	1065.8	1089.5	1086.6	1073.4	1100.8	1222.0	1134.0	1122.6
42.5°	4367.4	2141.1	1087.6	1010.0	1053.5	1083.8	1063.0	1063.9	1107.5	1041.2	1030.8
45°	4781.1	2185.6	1062.0	965.5	1012.8	1081.0	1059.2	1044.1	1047.8	1012.8	1007.1
47.5°	5263.8	2277.4	1044.1	928.6	974.0	1070.6	1058.3	1038.4	1029.9	1010.9	1006.2
50°	5800.5	2410.9	1030.8	893.6	939.0	1053.5	1059.2	1032.7	1023.2	1015.7	1012.8
52.5°	6327.7	2563.3	1010.9	863.3	911.5	1032.7	1062.0	1027.0	1016.6	1010.9	1008.1
55°	6915.6	2753.5	980.6	837.7	888.8	1006.2	1062.0	1018.5	1007.1	1008.1	1007.1
57.5°	7709.7	3061.2	944.7	815.9	861.4	974.0	1044.1	1009.0	994.8	995.8	996.7
60°	8950.7	3603.6	901.1	794.2	827.3	936.1	1019.4	988.2	974.0	977.8	978.7
62.5°	10775.6	4399.6	844.3	762.0	791.3	895.4	985.4	961.7	947.5	957.0	957.0
65°	12672.5	5102.0	774.3	721.3	753.5	851.0	942.8	928.6	914.4	936.1	935.2
67.5°	13182.7	4944.8	704.2	676.8	715.6	801.7	891.7	884.1	876.5	914.4	912.5
70°	11710.8	3969.9	639.9	631.4	674.0	748.7	836.8	836.8	832.0	860.4	853.8
72.5°	8922.3	2815.1	578.3	583.1	626.6	691.0	777.1	783.8	776.2	790.4	784.7
75°	4776.3	1611.0	516.8	530.1	567.9	632.3	710.9	717.5	712.8	711.8	714.7
77.5°	1587.4	787.5	452.5	473.3	506.4	571.7	641.8	652.2	640.8	638.9	638.0
80°	707.1	495.1	381.5	408.9	438.3	502.6	568.9	577.4	565.1	582.1	560.4
82.5°	454.3	325.6	305.7	336.0	364.4	433.5	496.0	497.9	486.5	565.1	481.8
85°	220.5	201.6	230.0	257.5	282.1	340.8	410.8	411.8	383.4	349.3	337.0
87.5°	109.8	117.4	153.3	178.0	190.3	233.8	299.1	293.4	281.1	255.6	235.7
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)