

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: P269506

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24106.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

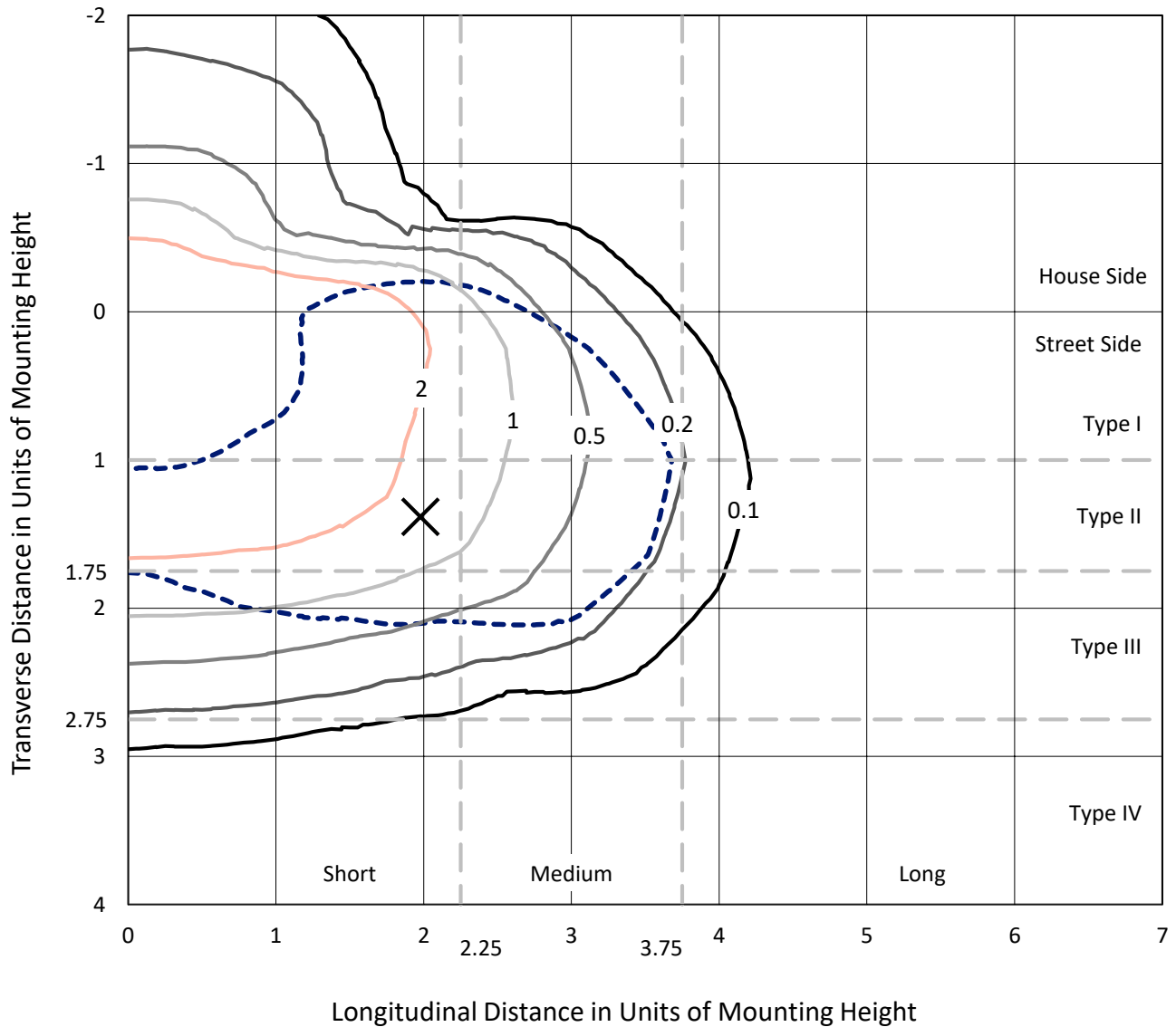
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

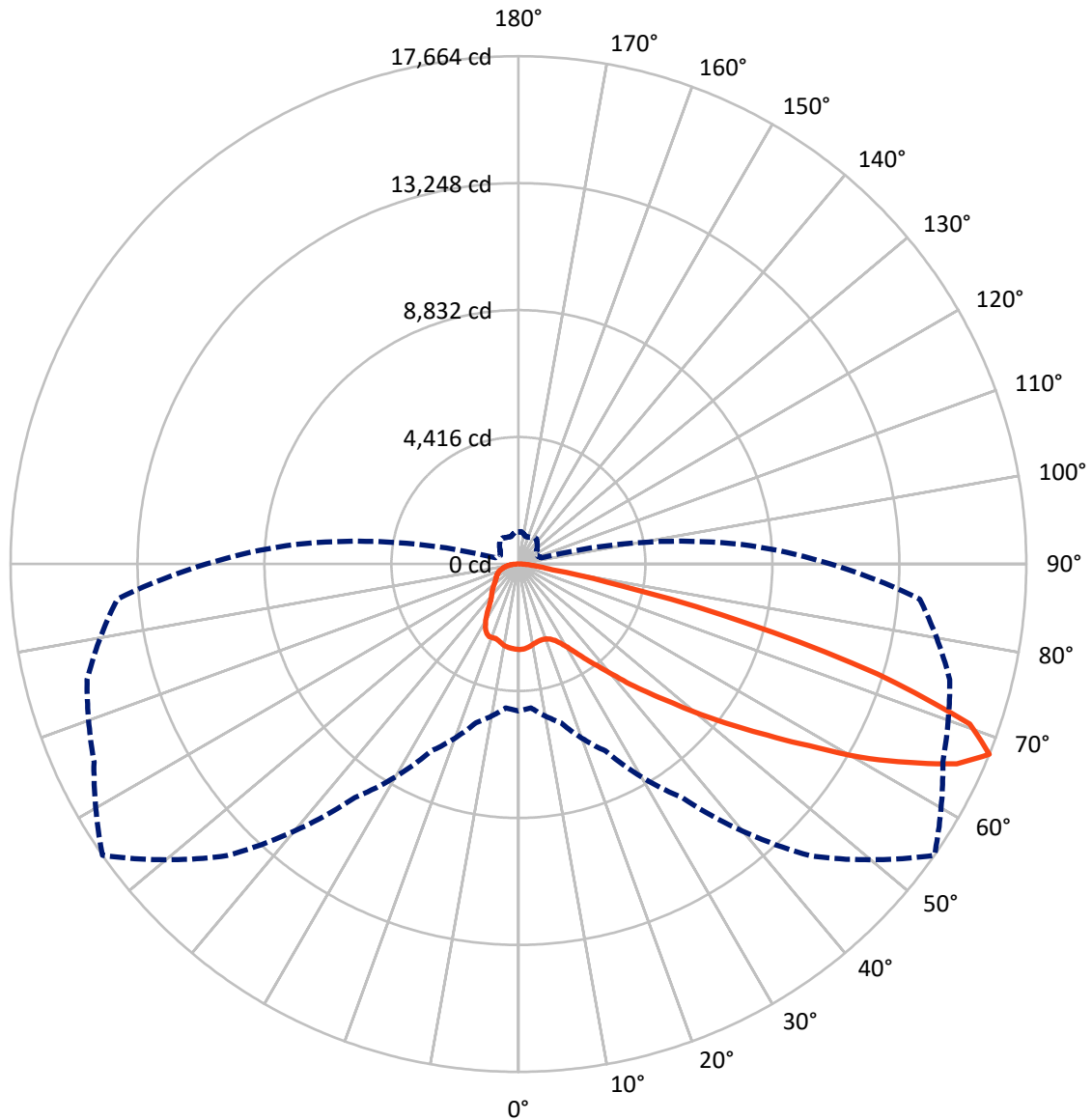
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5207.5	0.0	5207.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18898.7	0.0	18898.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	24106.2	0.0	24106.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	1.2
10°-20°	785.8	3.3
20°-30°	1316.3	5.5
30°-40°	2164.6	9.0
40°-50°	3643.7	15.1
50°-60°	5734.8	23.8
60°-70°	6843.9	28.4
70°-80°	2938.9	12.2
80°-90°	400.7	1.7
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°	24106.2	100.0
0°-180°	24106.2	100.0

Coefficient of Utilization



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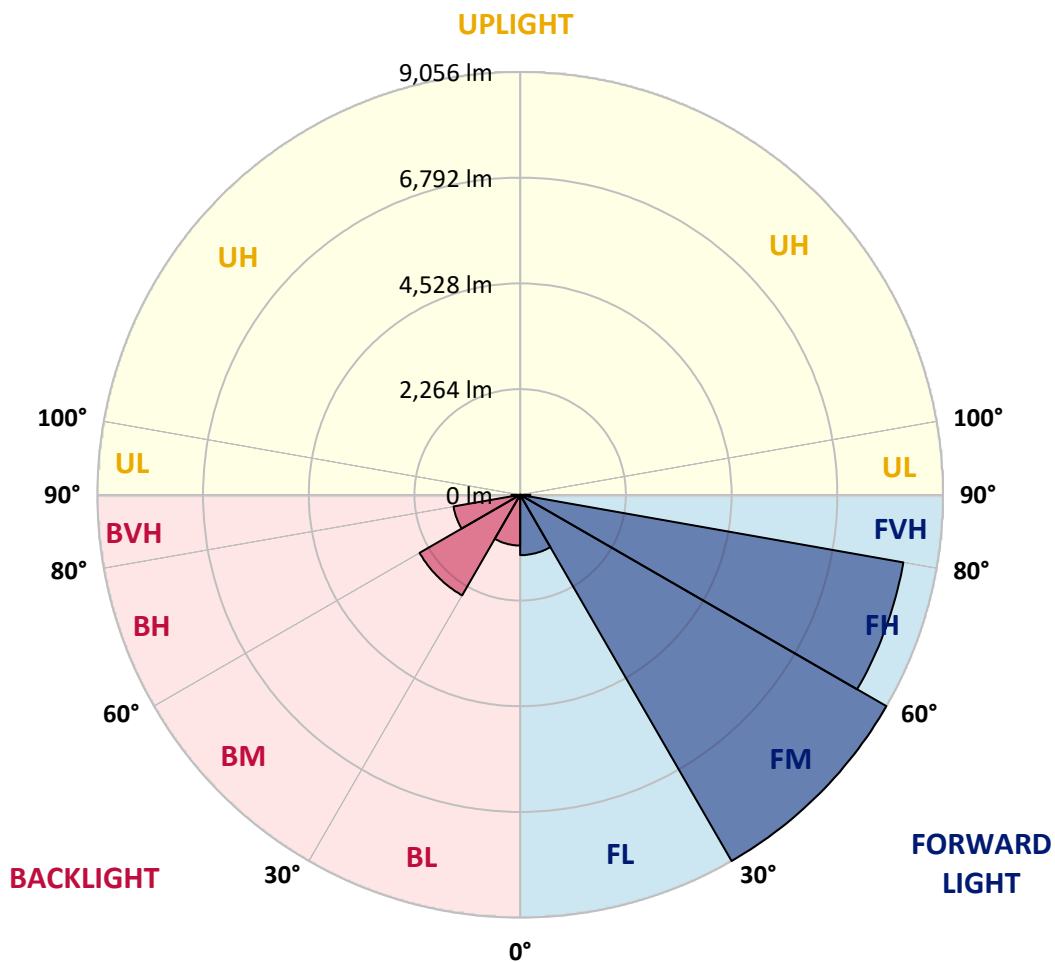
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.1	5.4			
FM	(30°-60°)	9056.1	37.6			
FH	(60°-80°)	8333.6	34.6			G4/12000
FVH	(80°-90°)	216.9	0.9			G2/225
BL	(0°-30°)	1087.4	4.5	B3/2500		
BM	(30°-60°)	2487.0	10.3	B2/2500		
BH	(60°-80°)	1449.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	183.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5
2.5°	2946.9	2948.1	2950.5	2959.7	2967.9	2965.6	2966.7	2962.2	2961.0	2953.9	2961.0
5°	2909.7	2913.2	2914.3	2929.5	2938.7	2941.1	2937.6	2931.8	2924.8	2917.9	2921.3
7.5°	2824.7	2834.1	2835.2	2856.2	2871.3	2891.0	2892.3	2893.4	2889.8	2885.3	2892.3
10°	2771.1	2773.4	2772.3	2787.4	2799.1	2821.1	2834.1	2856.2	2865.5	2867.7	2872.4
12.5°	2767.6	2765.3	2761.7	2761.7	2758.3	2767.6	2790.9	2822.4	2844.5	2851.5	2857.2
15°	2804.9	2803.7	2792.1	2774.7	2752.4	2745.5	2765.3	2800.2	2829.3	2844.5	2850.3
17.5°	2888.7	2881.8	2863.1	2823.6	2775.9	2757.2	2759.5	2788.6	2822.4	2842.1	2847.9
20°	3042.4	3042.4	3002.9	2928.4	2843.3	2799.1	2778.1	2795.5	2828.1	2855.0	2863.1
22.5°	3307.9	3310.3	3243.8	3121.6	2978.4	2884.1	2831.6	2828.1	2866.6	2896.9	2906.1
25°	3683.9	3674.6	3581.5	3406.8	3189.2	3033.0	2942.3	2921.3	2953.9	2987.8	2999.4
27.5°	4121.8	4087.9	3977.3	3766.7	3484.9	3256.6	3116.8	3083.2	3114.7	3153.1	3164.6
30°	4554.9	4519.9	4388.4	4157.9	3844.7	3555.9	3355.6	3300.9	3345.2	3399.8	3406.8
32.5°	4988.0	4988.0	4841.3	4572.4	4231.1	3913.3	3673.4	3608.3	3681.7	3748.0	3763.1
35°	5506.2	5508.4	5366.5	5042.7	4675.9	4339.5	4075.3	4027.5	4138.0	4184.7	4220.7
37.5°	6143.1	6155.8	5973.1	5581.9	5180.2	4826.1	4511.7	4446.6	4557.2	4684.1	4800.5
40°	6831.3	6847.5	6646.0	6164.0	5762.3	5392.0	5052.1	4934.5	5118.5	5360.6	5510.8
42.5°	7487.8	7571.6	7377.2	6881.2	6449.2	6066.3	5721.6	5550.4	5781.0	6146.6	6276.9
45°	8436.8	8497.3	8158.4	7709.1	7302.7	6874.3	6417.9	6237.3	6559.9	7021.0	7047.7
47.5°	9069.0	9023.7	8851.3	8571.8	8314.5	7914.0	7227.0	7029.1	7457.5	8000.1	7850.0
50°	9405.6	9419.4	9396.2	9412.5	9421.9	9170.3	8219.0	7947.8	8458.9	9114.5	8768.6
52.5°	9719.9	9626.7	9703.6	10085.5	10546.6	10453.4	9298.4	9015.5	9532.5	10351.0	9739.8
55°	9713.0	9570.8	9821.2	10495.3	11495.5	11602.6	10510.4	10184.4	10667.6	11677.2	10768.9
57.5°	9369.4	9376.4	9761.8	10644.3	12156.9	12683.1	11916.9	11428.0	11871.6	13020.8	11708.6
60°	8896.8	8960.8	9516.1	10619.9	12686.7	13569.2	13642.5	12768.1	13051.0	14242.2	12486.4
62.5°	8134.1	8201.5	8967.7	10366.1	12606.3	14422.6	15202.7	14288.7	14284.0	14982.7	12714.6
65°	6931.3	6911.5	7716.1	9417.1	11932.1	15053.7	16752.5	15603.3	15213.2	14994.4	12255.8
67.5°	5111.4	5023.0	5713.4	7172.2	9917.8	14347.0	17664.2	16287.9	15530.0	14008.1	10854.0
70°	2652.3	2563.9	3122.8	4188.1	6522.7	11197.5	16654.7	15934.0	14830.2	11742.4	8503.1
72.5°	1134.1	1118.8	1346.0	1837.4	3155.3	6458.5	13059.2	13791.6	12725.0	8748.9	5846.1
75°	762.7	758.0	843.0	1001.3	1419.3	2621.0	8172.5	9789.8	9310.0	5424.7	3288.1
77.5°	598.5	592.6	642.6	719.5	919.9	1033.9	3626.8	5255.9	4864.6	2361.3	1439.2
80°	468.0	463.3	494.8	536.7	661.3	652.0	1193.5	2091.2	1618.4	904.8	699.8
82.5°	369.2	369.2	394.7	395.9	469.3	444.8	623.0	921.0	808.0	527.5	428.5
85°	337.7	337.7	364.4	295.7	306.2	280.6	386.6	546.1	512.4	216.6	186.3
87.5°	170.0	165.4	306.2	261.9	166.5	148.9	188.6	264.3	284.1	120.0	93.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5	2972.5
2.5°	2958.6	2957.4	2959.7	2961.0	2970.2	2983.0	2988.8	2997.0	3001.6	2999.4
5°	2923.7	2926.0	2935.3	2942.3	2958.6	2979.6	2991.1	3000.5	3008.7	3005.2
7.5°	2894.6	2900.4	2914.3	2920.2	2929.5	2935.3	2934.1	2937.6	2944.6	2936.5
10°	2878.2	2885.3	2895.6	2887.5	2865.5	2834.1	2804.9	2789.7	2794.4	2788.6
12.5°	2861.9	2871.3	2863.1	2824.7	2762.9	2722.3	2700.0	2702.5	2712.9	2715.2
15°	2852.7	2856.2	2821.1	2749.1	2686.1	2680.4	2692.0	2689.6	2690.9	2690.9
17.5°	2852.7	2843.3	2778.1	2706.0	2679.1	2668.7	2632.6	2587.2	2567.4	2560.3
20°	2867.7	2843.3	2764.2	2716.5	2658.2	2568.6	2473.0	2389.2	2351.9	2341.5
22.5°	2913.2	2871.3	2803.7	2721.1	2555.7	2405.5	2254.1	2154.0	2086.6	2074.8
25°	3005.2	2958.6	2881.8	2659.3	2392.7	2178.5	2006.2	1894.3	1826.9	1817.5
27.5°	3165.8	3135.5	2923.7	2523.1	2176.1	1946.7	1787.3	1701.1	1651.1	1647.5
30°	3408.0	3392.9	2902.8	2321.7	1909.4	1722.1	1645.2	1595.1	1557.9	1556.8
32.5°	3794.6	3672.4	2834.1	2076.1	1666.1	1562.5	1531.2	1500.8	1471.8	1471.8
35°	4291.7	3898.3	2703.5	1812.9	1518.2	1474.1	1434.5	1386.8	1348.3	1346.0
37.5°	4876.3	4037.9	2469.6	1601.0	1448.4	1414.7	1356.4	1285.5	1217.9	1206.2
40°	5466.5	4079.8	2140.0	1470.5	1404.2	1355.4	1284.2	1200.5	1135.2	1131.8
42.5°	6008.0	3999.6	1790.7	1381.0	1359.9	1294.7	1220.2	1145.7	1094.5	1093.2
45°	6462.0	3791.0	1497.4	1296.0	1313.4	1240.0	1173.6	1113.1	1073.6	1065.4
47.5°	6889.5	3496.6	1291.3	1206.2	1266.8	1209.7	1153.9	1096.8	1058.5	1052.5
50°	7385.3	3178.7	1146.9	1118.8	1226.0	1199.2	1170.1	1110.8	1046.7	1039.8
52.5°	7986.2	2903.9	1033.9	1042.0	1194.7	1213.3	1212.1	1150.4	1038.6	1029.3
55°	8656.8	2598.7	948.9	979.2	1181.8	1238.9	1222.6	1187.6	1045.5	1031.7
57.5°	9317.0	2242.4	889.5	931.5	1163.1	1236.5	1172.5	1122.4	1061.8	1042.0
60°	9811.8	1764.0	844.1	889.5	1122.4	1198.1	1117.9	1051.3	1058.5	1043.2
62.5°	9844.4	1363.4	789.4	853.5	1060.7	1159.7	1081.6	1019.9	1073.6	1059.6
65°	9265.7	1030.4	737.0	810.5	994.3	1135.2	1046.7	1002.5	1104.9	1089.9
67.5°	7801.2	829.0	692.9	766.2	927.9	1084.1	1015.4	986.2	1132.9	1106.2
70°	5632.0	706.7	649.7	712.5	868.7	1025.8	987.3	957.1	1057.2	1015.4
72.5°	3467.4	612.5	600.7	641.6	823.1	965.1	945.5	902.3	952.5	918.6
75°	1731.4	531.0	546.1	571.7	759.2	896.6	875.6	832.5	839.5	832.5
77.5°	829.0	454.2	482.0	501.9	676.5	818.5	796.3	752.2	743.9	745.1
80°	525.1	379.5	406.4	420.3	604.3	727.6	705.6	661.3	754.4	699.8
82.5°	328.3	308.6	315.6	341.1	526.2	633.5	604.3	564.8	679.9	537.9
85°	181.6	215.5	224.8	246.9	405.1	529.8	500.6	450.6	404.0	397.1
87.5°	108.2	128.1	131.6	148.0	272.5	383.0	338.8	321.4	266.6	265.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)