

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: P269353

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269353
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 26002.4 lumens
Efficiency: N/A
Efficacy: 93.2 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

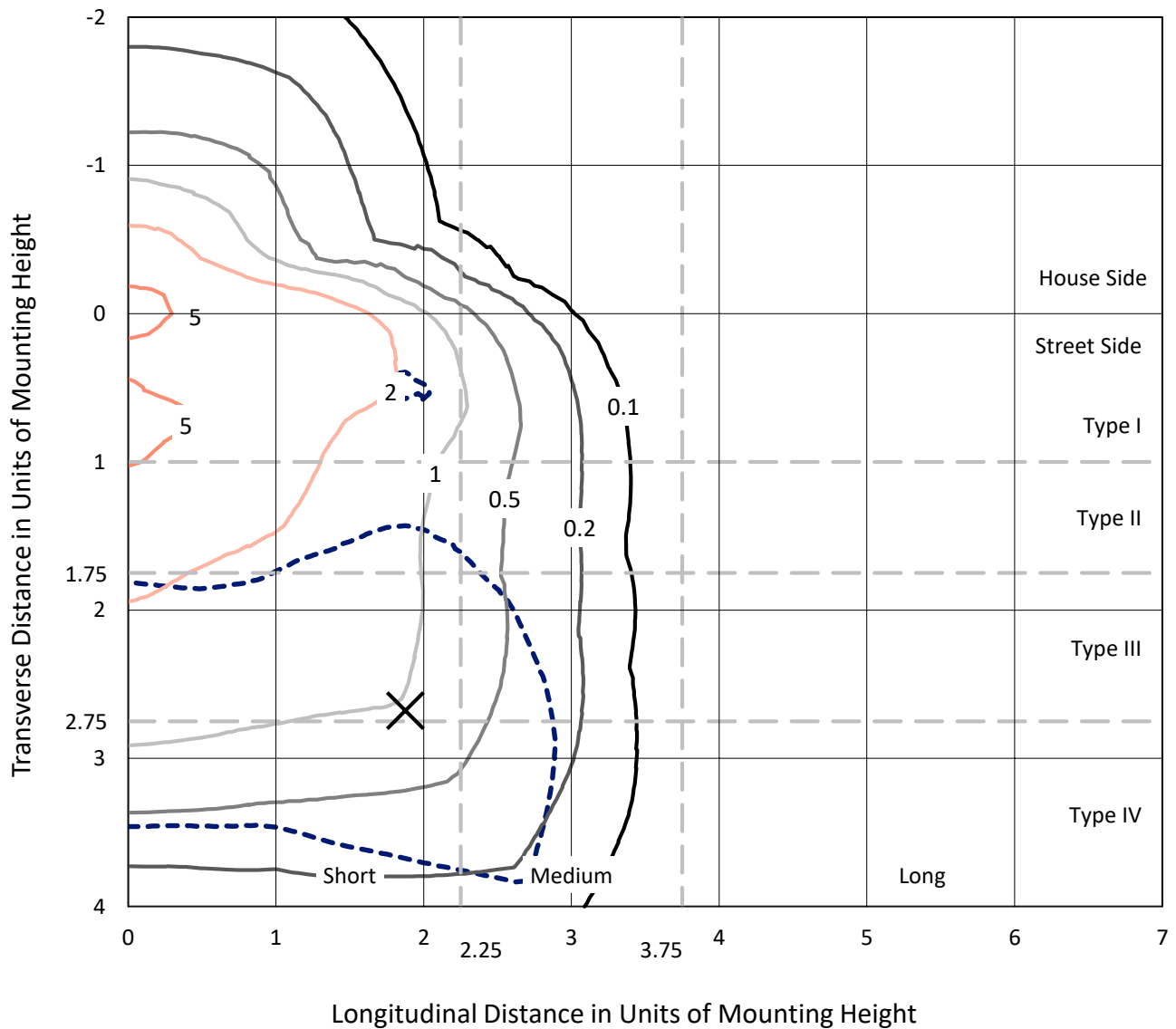
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

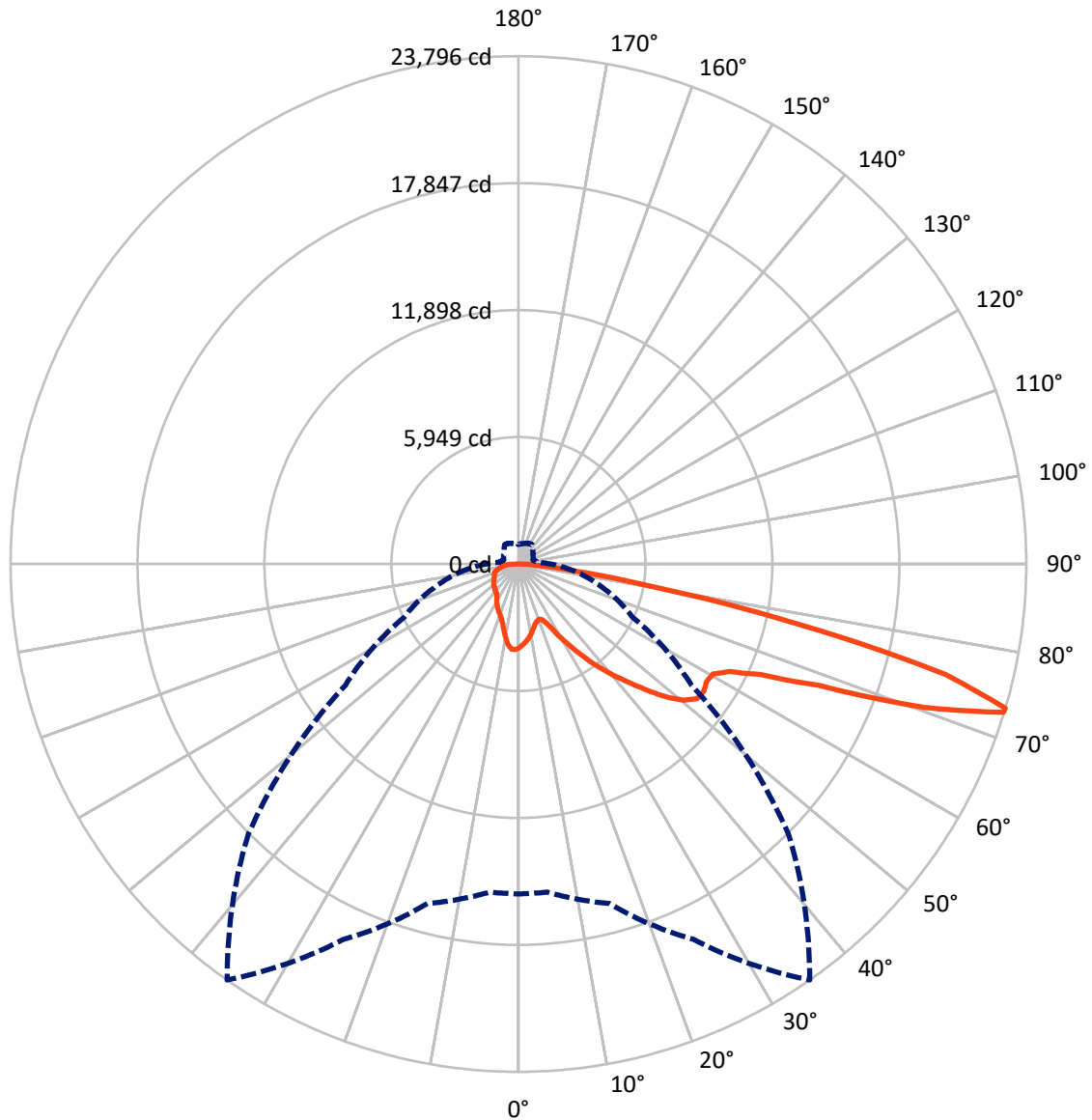
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	4959.4	0.0	4959.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	21043.0	0.0	21043.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	26002.4	0.0	26002.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	1.4
10°-20°	886.7	3.4
20°-30°	1433.5	5.5
30°-40°	2403.9	9.2
40°-50°	3705.4	14.3
50°-60°	4971.2	19.1
60°-70°	6622.7	25.5
70°-80°	5051.1	19.4
80°-90°	572.5	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°	26002.4	100.0
0°-180°	26002.4	100.0



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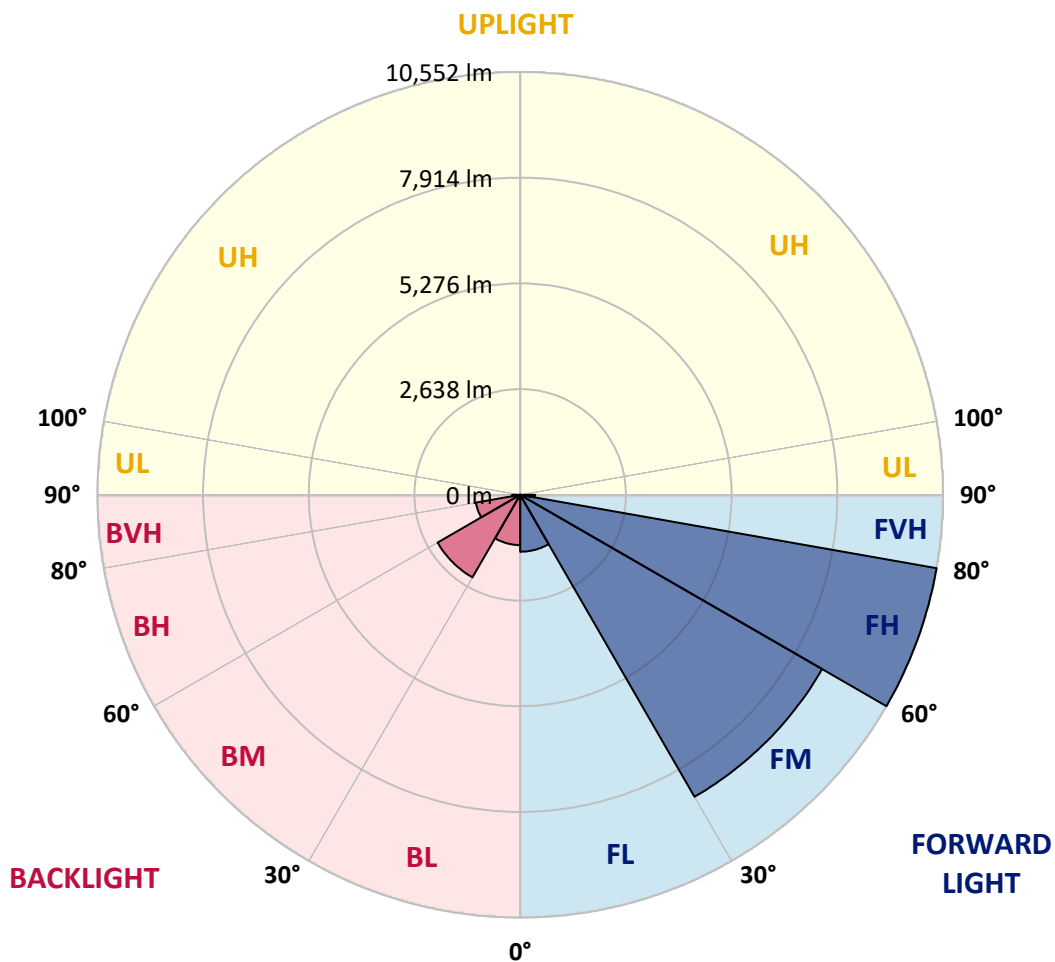
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1420.6	5.5			
FM	(30°-60°)	8700.6	33.5			
FH	(60°-80°)	10551.8	40.6			G4/12000
FVH	(80°-90°)	370.1	1.4			G3/500
BL	(0°-30°)	1255.0	4.8	B3/2500		
BM	(30°-60°)	2379.9	9.2	B2/2500		
BH	(60°-80°)	1122.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	202.4	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°	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5
2.5°	3769.7	3777.3	3768.5	3779.7	3798.5	3818.4	3832.2	3852.1	3874.6	3905.8	3913.3
5°	3592.4	3603.7	3603.7	3623.7	3659.9	3692.4	3722.2	3754.7	3802.2	3855.9	3877.2
7.5°	3397.6	3403.9	3415.0	3445.1	3497.6	3543.8	3586.2	3638.7	3703.5	3774.7	3812.1
10°	3162.9	3171.6	3189.2	3231.6	3302.7	3366.4	3427.7	3500.1	3582.4	3671.2	3718.5
12.5°	2996.8	2994.3	3001.7	3032.9	3095.5	3172.9	3261.6	3353.9	3455.2	3558.7	3616.1
15°	2940.6	2926.9	2898.1	2890.7	2924.4	3001.7	3104.3	3217.8	3338.9	3463.9	3535.0
17.5°	2975.5	2951.9	2873.1	2815.7	2810.7	2869.5	2978.2	3105.4	3245.2	3397.6	3486.3
20°	3195.4	3139.1	2945.6	2812.1	2765.8	2794.4	2889.4	3024.2	3189.2	3391.5	3504.9
22.5°	3721.0	3638.7	3227.8	2979.3	2823.3	2788.2	2859.5	3003.0	3195.4	3468.9	3613.6
25°	4486.4	4369.0	3712.2	3396.4	3074.2	2888.2	2904.4	3051.7	3284.1	3648.6	3823.5
27.5°	5090.9	5014.7	4345.5	3984.5	3531.2	3157.9	3050.6	3174.2	3465.0	3943.3	4121.9
30°	5450.5	5404.3	5022.2	4651.3	4114.3	3587.4	3330.1	3403.9	3748.4	4351.6	4498.9
32.5°	5867.5	5840.1	5652.8	5311.9	4743.7	4151.8	3773.5	3747.3	4128.2	4842.4	4909.7
35°	6299.5	6290.8	6180.9	5936.2	5419.3	4896.0	4361.6	4184.2	4541.4	5351.8	5309.3
37.5°	6701.6	6686.7	6622.9	6480.6	6126.0	5695.2	4961.0	4632.6	4987.2	5838.8	5650.2
40°	7442.1	7324.7	7106.2	6998.8	6840.2	6368.3	5436.7	5050.9	5449.2	6303.2	5945.0
42.5°	8344.9	8153.8	7746.8	7599.4	7576.9	6899.0	5761.4	5456.7	5915.0	6764.1	6234.5
45°	9055.4	8875.6	8524.6	8338.5	8421.0	7379.7	6087.3	5889.9	6394.5	7247.3	6533.1
47.5°	9813.4	9531.0	9066.7	9122.7	9302.6	7834.2	6419.4	6355.7	6920.2	7787.9	6904.0
50°	9840.8	9624.7	9421.2	9757.1	10036.9	8252.5	6835.3	6843.9	7563.2	8468.5	7397.2
52.5°	9270.1	9223.9	9547.4	10075.5	10478.8	8583.3	7308.5	7348.5	8386.0	9250.1	7939.0
55°	9070.4	9017.8	9391.2	9964.4	10538.7	8856.7	7821.6	7894.0	9381.3	10074.2	8467.2
57.5°	9557.2	9441.1	9466.2	9912.0	10392.8	9156.6	8381.0	8527.3	10462.6	10794.8	8806.9
60°	10918.4	10669.9	10197.9	10186.6	10471.4	9606.0	9027.8	9206.4	11586.3	11139.4	8674.6
62.5°	12827.5	12579.1	11695.0	11119.4	11076.9	10347.8	9822.1	9869.5	12235.8	10672.4	7866.5
65°	14894.2	14671.8	13684.2	12871.3	12479.3	11576.4	10744.7	10165.4	12023.5	9387.5	6453.2
67.5°	17402.8	17164.3	16315.0	15564.7	15187.6	13559.2	11392.8	9882.0	10676.1	7272.3	4638.8
70°	19157.1	18913.6	18578.9	19187.1	20109.8	16419.9	11476.6	8729.5	7974.1	4833.6	2792.0
72.5°	16868.3	16754.6	17365.2	19926.3	23769.7	18155.6	10373.9	6355.7	4631.3	2566.0	1615.8
73°	15454.8	15429.7	16471.2	19408.2	23795.9	17888.5	9890.7	5907.4	3972.0	2270.0	1477.2
75°	6978.8	7179.9	9462.4	14824.2	20674.2	14740.6	6961.3	3388.9	2243.8	1568.4	1115.1
77.5°	1677.0	1746.8	2960.6	7039.9	13056.1	8784.3	3154.2	1675.7	1434.8	1107.6	814.1
80°	714.2	738.0	1139.9	2601.0	6147.2	3537.4	1453.5	1122.5	992.6	772.9	570.7
82.5°	397.1	422.1	646.8	1180.1	2481.1	1206.2	886.5	781.6	653.1	465.7	370.9
85°	224.8	238.5	378.4	659.3	1051.3	484.5	530.7	519.4	368.3	239.8	182.3
87.5°	106.1	114.9	182.3	306.0	412.1	189.8	269.8	297.2	231.0	146.2	95.0
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°	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5
2.5°	3922.1	3944.5	3970.8	3984.5	3997.0	4012.0	4026.9	4026.9	4029.4	4030.8
5°	3894.6	3940.9	3981.9	3999.6	4003.2	4003.2	3999.6	3979.5	3962.1	3969.5
7.5°	3837.2	3904.7	3939.5	3933.3	3885.9	3830.9	3784.6	3728.5	3699.8	3694.8
10°	3754.7	3832.2	3838.4	3775.9	3658.5	3541.2	3443.8	3348.9	3304.0	3292.7
12.5°	3663.6	3734.8	3694.8	3566.2	3377.6	3206.6	3083.0	2986.9	2944.4	2933.1
15°	3589.9	3638.7	3537.4	3335.1	3098.0	2916.8	2814.5	2743.3	2713.4	2704.5
17.5°	3551.2	3561.2	3376.4	3102.9	2850.7	2699.6	2635.9	2602.2	2591.0	2584.8
20°	3570.0	3500.1	3222.8	2887.0	2648.5	2542.4	2527.3	2518.6	2516.1	2512.3
22.5°	3663.6	3481.3	3081.7	2682.1	2471.1	2425.0	2437.5	2436.2	2433.7	2431.2
25°	3830.9	3497.6	2944.4	2487.3	2322.5	2312.5	2335.1	2335.1	2325.1	2325.1
27.5°	4052.0	3531.2	2790.8	2302.5	2187.6	2188.9	2206.3	2201.3	2190.2	2182.7
30°	4321.7	3552.4	2611.0	2136.4	2061.6	2056.6	2061.6	2040.3	2006.6	2004.1
32.5°	4597.5	3526.2	2402.4	1989.1	1927.9	1916.8	1913.0	1882.9	1844.3	1833.0
35°	4847.3	3430.1	2190.2	1871.8	1800.7	1775.6	1793.0	1783.0	1748.1	1739.4
37.5°	5029.6	3251.5	1999.1	1768.1	1709.5	1703.1	1714.4	1718.2	1677.0	1668.2
40°	5152.0	3009.3	1835.5	1680.6	1692.0	1668.2	1630.8	1604.6	1592.1	1588.4
42.5°	5250.7	2757.1	1698.2	1639.4	1695.7	1627.0	1545.9	1503.5	1526.0	1535.8
45°	5364.3	2511.1	1583.4	1588.4	1677.0	1579.6	1487.1	1445.9	1454.6	1457.2
47.5°	5520.4	2211.4	1459.7	1505.9	1614.6	1547.2	1450.9	1392.3	1351.1	1332.4
50°	5736.3	1856.7	1331.1	1413.6	1553.3	1523.3	1394.8	1332.4	1256.2	1238.8
52.5°	5886.2	1526.0	1225.0	1336.0	1498.5	1475.9	1349.9	1268.6	1188.7	1173.7
55°	5805.0	1267.4	1132.6	1249.9	1426.0	1417.3	1312.3	1203.6	1141.2	1128.8
57.5°	5399.3	1103.8	1061.3	1168.8	1337.3	1367.3	1262.4	1148.8	1103.8	1095.0
60°	4625.1	1001.4	1016.4	1113.8	1265.0	1317.4	1212.4	1118.7	1088.8	1082.5
62.5°	3588.6	932.8	982.7	1073.8	1208.7	1282.4	1185.0	1115.1	1103.8	1096.3
65°	2570.9	877.9	946.5	1033.9	1157.6	1249.9	1175.1	1110.0	1112.6	1106.4
67.5°	1746.8	829.1	902.7	988.9	1107.6	1221.2	1161.2	1092.6	1123.8	1116.4
70°	1222.5	781.6	851.7	931.5	1045.2	1181.2	1136.3	1066.4	1063.9	1033.9
72.5°	954.0	719.3	781.6	851.7	965.1	1125.0	1086.3	1007.7	966.4	935.2
73°	910.3	704.2	764.2	834.0	947.7	1111.4	1072.5	991.5	945.2	916.5
75°	753.0	639.4	694.3	756.7	872.9	1046.3	1005.2	917.8	859.0	841.6
77.5°	591.9	546.9	599.3	655.6	769.2	951.5	905.3	821.6	789.2	774.2
80°	438.4	453.3	499.5	549.5	666.8	850.3	809.2	725.6	870.3	834.0
82.5°	308.4	343.4	385.8	430.7	559.5	751.7	701.8	615.6	636.8	529.5
85°	182.3	224.8	264.7	303.4	403.2	623.1	579.3	490.7	402.1	383.3
87.5°	106.1	124.9	136.2	176.1	277.1	469.5	408.3	363.4	208.5	141.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)