

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: P269430

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20835.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

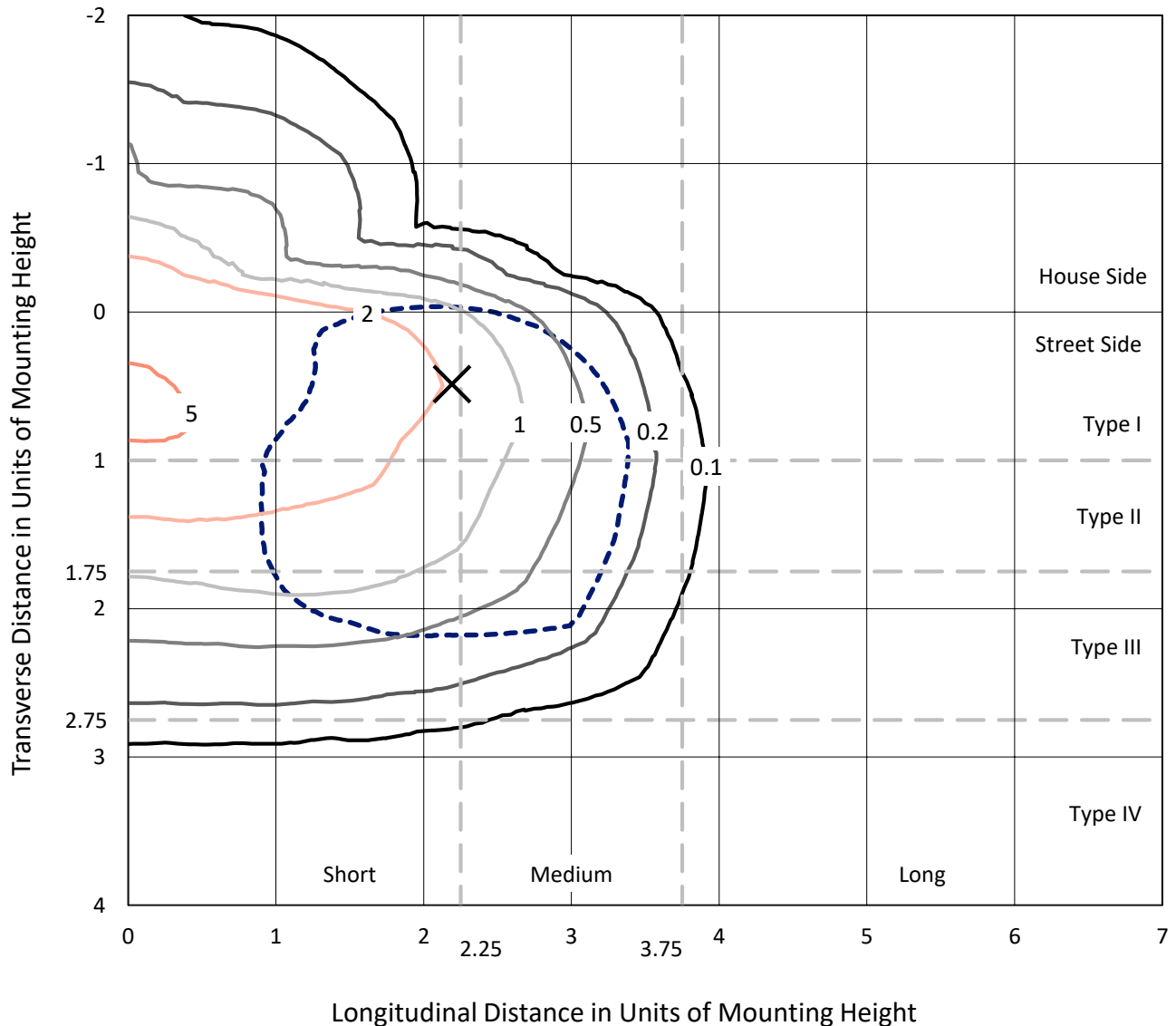


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

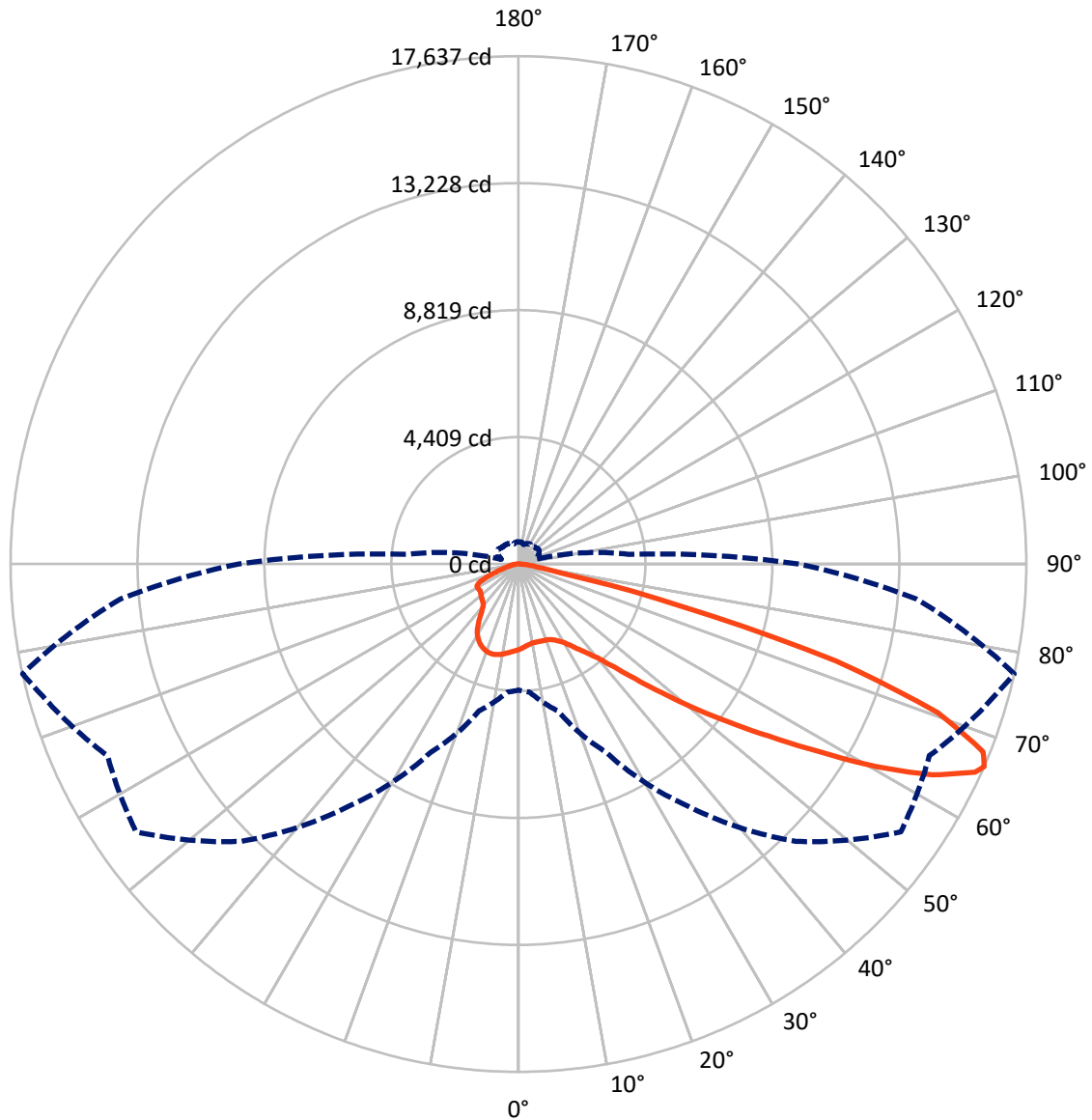


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3559.7	0.0	3559.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	17276.2	0.0	17276.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	20835.9	0.0	20835.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.3	1.3
10°-20°	748.4	3.6
20°-30°	1277.2	6.1
30°-40°	2044.6	9.8
40°-50°	3158.7	15.2
50°-60°	4480.2	21.5
60°-70°	5993.3	28.8
70°-80°	2602.8	12.5
80°-90°	265.4	1.3
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°	20835.9	100.0
0°-180°	20835.9	100.0



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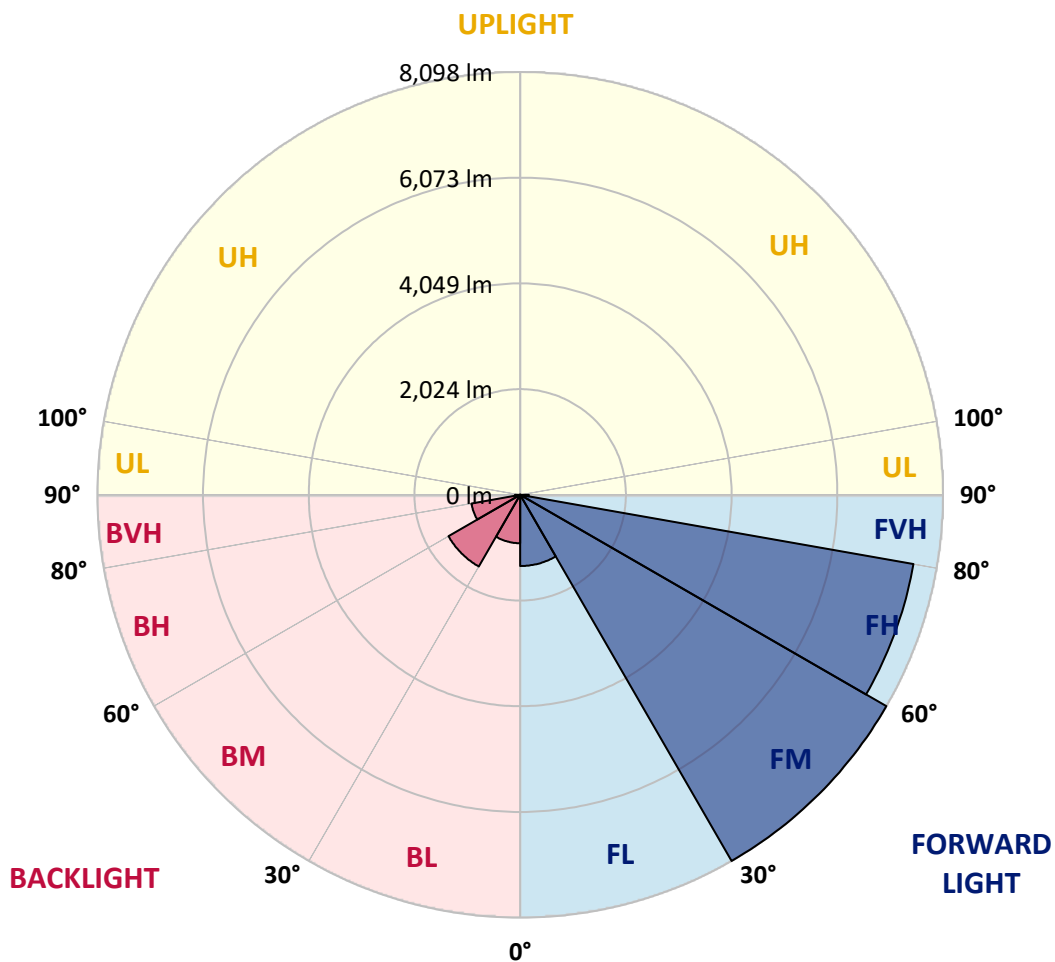
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.8	6.5			
FM	(30°-60°)	8097.9	38.9			
FH	(60°-80°)	7648.0	36.7			G4/12000
FVH	(80°-90°)	166.4	0.8			G2/225
BL	(0°-30°)	927.1	4.4	B2/1000		
BM	(30°-60°)	1585.6	7.6	B2/2500		
BH	(60°-80°)	948.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	98.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2
2.5°	2626.6	2644.3	2659.2	2672.8	2700.5	2745.7	2798.0	2840.3	2901.3	2913.2	2945.6
5°	2385.4	2385.4	2397.2	2417.9	2455.2	2523.2	2594.1	2688.6	2821.5	2853.0	2939.7
7.5°	2268.3	2269.3	2276.1	2293.8	2326.3	2388.4	2466.1	2577.3	2757.5	2809.7	2957.4
10°	2311.6	2301.7	2286.9	2278.1	2283.0	2319.5	2393.3	2517.3	2718.2	2785.1	2996.7
12.5°	2553.7	2535.0	2483.9	2415.9	2351.0	2324.4	2367.8	2488.8	2701.5	2779.1	3048.9
15°	2949.6	2941.6	2846.2	2705.3	2547.9	2415.9	2386.3	2478.0	2703.4	2786.2	3111.0
17.5°	3445.7	3434.8	3308.8	3104.2	2847.2	2590.3	2452.4	2486.8	2710.2	2798.0	3171.0
20°	3946.9	3913.3	3777.5	3533.4	3203.5	2827.4	2561.6	2509.4	2719.2	2810.6	3234.1
22.5°	4320.8	4293.4	4171.3	3933.9	3554.1	3102.0	2708.3	2548.9	2747.6	2848.2	3311.8
25°	4649.7	4651.8	4530.6	4301.3	3908.4	3393.5	2897.4	2654.2	2820.6	2924.9	3418.1
27.5°	5056.3	5032.8	4919.5	4692.0	4258.9	3687.9	3125.7	2798.8	2928.8	3034.1	3557.9
30°	5542.6	5526.0	5395.0	5137.0	4647.8	4003.9	3386.6	2967.2	3068.6	3177.9	3741.0
32.5°	6114.7	6106.8	5970.9	5639.1	5096.7	4376.1	3692.8	3189.7	3277.3	3390.6	4003.9
35°	6786.1	6787.1	6626.5	6227.9	5587.9	4809.3	4040.3	3476.3	3531.3	3649.5	4317.0
37.5°	7199.6	7249.7	7189.8	6783.1	6144.1	5293.6	4491.3	3856.2	3820.9	3940.0	4652.7
40°	7288.2	7349.3	7539.1	7332.4	6766.4	5827.1	4890.9	4221.4	4177.2	4322.9	5084.9
42.5°	7164.2	7248.8	7650.4	7796.1	7426.9	6484.9	5428.5	4763.9	4707.7	4903.7	5622.4
45°	7090.2	7153.3	7617.9	8037.3	7999.9	7228.1	6112.6	5445.2	5424.5	5681.5	6242.6
47.5°	6962.4	7019.4	7466.4	8093.5	8336.6	7909.3	6934.7	6278.1	6318.4	6655.2	6942.6
50°	7031.3	7054.7	7297.0	7950.7	8434.0	8408.5	7853.3	7242.9	7380.7	7801.2	7735.1
52.5°	7021.3	7082.3	7277.3	7716.4	8446.9	8716.7	8757.9	8318.9	8609.4	9091.7	8614.2
55°	5676.6	5788.8	7045.9	7657.3	8492.1	9018.9	9563.3	9453.0	9994.5	10556.6	9606.7
57.5°	5420.6	5491.5	6188.5	7781.4	8732.5	9595.8	10459.1	10701.4	11607.1	12259.8	10815.6
60°	5370.3	5458.0	6179.6	7933.0	9219.8	10536.0	11787.3	12212.5	13569.2	14283.9	12217.5
62.5°	5213.9	5308.4	6121.5	7913.3	9911.8	11836.4	13487.4	13819.3	15429.8	16124.8	13390.0
65°	4717.7	4806.2	5648.1	7595.3	10378.5	13224.6	15499.7	15292.0	16898.7	17421.5	13974.8
66°	4378.0	4464.7	5274.8	7221.2	10270.1	13618.3	16212.5	15747.8	17227.5	17637.1	13860.6
67.5°	3756.8	3824.8	4550.4	6383.4	9694.1	13728.6	16812.0	16090.4	17262.0	17406.6	13207.9
70°	2373.6	2393.3	2957.4	4406.5	7338.3	11906.3	15899.5	15239.8	15838.5	15446.5	11072.5
72.5°	1029.7	1022.9	1419.6	2241.7	4154.5	7989.0	12861.4	12574.8	12424.2	11530.4	7750.8
75°	572.9	580.8	737.4	1040.5	1688.5	3924.2	8413.4	8051.1	6797.8	5800.5	3514.6
77.5°	459.8	470.6	611.3	738.3	758.1	1368.5	3936.9	3203.5	1928.7	1547.6	976.5
80°	363.3	382.9	533.7	574.9	511.0	564.1	1272.0	1017.1	763.0	700.0	506.0
82.5°	287.5	301.2	457.7	435.1	357.3	380.1	609.4	593.6	496.1	451.8	292.4
85°	206.7	232.3	376.1	327.8	234.3	255.9	404.6	387.9	284.6	232.3	128.9
87.5°	84.7	110.2	265.8	217.6	131.0	119.1	201.8	190.0	134.8	98.5	64.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2	2969.2
2.5°	2966.3	2989.9	3020.5	3039.1	3048.9	3055.9	3066.6	3065.6	3068.6	3069.6	3073.6
5°	2986.0	3025.3	3069.6	3081.5	3081.5	3070.5	3059.7	3042.1	3035.2	3033.1	3035.2
7.5°	3037.1	3080.5	3118.8	3105.1	3075.5	3032.1	2976.2	2926.9	2900.3	2891.5	2889.5
10°	3102.0	3154.3	3170.1	3117.8	3031.2	2926.9	2815.6	2734.9	2688.6	2675.8	2671.9
12.5°	3180.9	3230.0	3208.4	3098.2	2937.6	2769.4	2615.8	2486.8	2390.3	2359.8	2357.8
15°	3267.6	3305.9	3230.0	3037.1	2798.0	2549.7	2276.1	2053.6	1933.5	1895.2	1892.2
17.5°	3348.3	3367.9	3217.3	2930.8	2592.1	2190.4	1827.2	1655.8	1614.6	1624.5	1626.4
20°	3417.2	3417.2	3174.0	2778.2	2268.3	1716.9	1487.6	1484.5	1514.2	1543.6	1549.5
22.5°	3493.0	3447.7	3098.2	2562.7	1809.5	1404.9	1371.4	1399.0	1432.4	1465.0	1469.8
25°	3586.6	3472.3	2992.9	2235.8	1422.6	1276.0	1288.7	1311.3	1328.1	1348.7	1351.7
27.5°	3690.9	3503.7	2854.1	1785.9	1234.5	1195.1	1204.9	1212.9	1210.9	1218.8	1220.7
30°	3815.9	3540.2	2664.1	1396.0	1156.7	1126.3	1108.5	1101.6	1101.6	1114.4	1119.4
32.5°	3983.3	3594.4	2391.3	1196.2	1119.4	1077.0	1019.9	994.3	1004.1	1047.6	1057.3
35°	4167.3	3652.5	2022.2	1128.2	1111.6	1054.4	965.8	918.5	919.5	959.8	972.7
37.5°	4368.2	3726.3	1617.5	1115.4	1129.2	1055.4	937.2	872.3	845.7	845.7	850.5
40°	4625.2	3802.0	1309.4	1124.3	1166.5	1067.1	922.5	835.9	761.0	763.0	767.0
42.5°	4959.8	3867.1	1144.0	1143.1	1212.0	1082.9	921.5	787.5	722.5	767.0	807.2
45°	5332.0	3899.5	1071.0	1159.7	1248.4	1092.8	905.8	779.6	727.5	859.5	936.3
47.5°	5760.2	3880.9	1030.7	1165.6	1257.2	1092.8	888.1	798.5	762.0	995.3	1085.0
50°	6229.8	3826.7	991.4	1153.9	1254.3	1090.8	904.8	817.1	774.8	1018.9	1081.0
52.5°	6782.2	3781.4	950.0	1128.2	1233.6	1080.0	924.4	809.3	734.5	926.4	969.7
55°	7412.2	3794.3	903.8	1091.8	1201.0	1059.3	917.6	777.8	692.1	816.1	842.7
57.5°	8217.5	3946.9	848.5	1045.5	1156.7	1024.8	892.9	763.0	679.3	740.4	756.2
60°	9116.3	4212.6	779.6	999.3	1101.6	969.7	874.2	769.8	685.1	734.5	742.3
62.5°	9776.0	4367.2	720.6	931.4	1026.9	908.6	850.5	778.7	700.9	755.0	753.0
65°	9955.1	4113.2	646.8	831.9	925.4	844.6	821.1	788.6	707.9	771.9	763.0
66°	9704.1	3839.4	614.4	785.6	874.2	813.1	806.3	787.5	704.9	773.8	759.1
67.5°	9094.7	3278.4	558.1	717.7	792.6	766.0	782.7	778.7	697.1	771.9	751.2
70°	7417.1	2236.8	477.4	597.6	659.6	674.4	737.4	747.2	671.5	737.4	692.1
72.5°	5182.3	1362.5	422.4	463.6	533.7	574.9	675.3	703.9	637.0	643.8	600.5
75°	2504.6	723.7	382.9	359.3	414.5	480.5	600.5	644.9	582.8	538.5	522.8
77.5°	780.6	442.1	324.8	289.4	324.8	387.9	502.2	565.2	518.9	450.9	445.0
80°	419.4	324.8	250.1	232.3	256.9	304.2	394.7	471.6	446.0	404.6	361.3
82.5°	276.7	210.7	185.1	180.2	195.9	232.3	293.3	390.9	390.9	346.6	252.1
85°	142.7	128.9	127.0	127.0	136.8	154.6	199.9	301.2	321.0	183.2	151.6
87.5°	70.8	73.8	68.9	71.9	76.7	75.7	95.5	151.6	181.2	111.2	92.5
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)