

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: P269269

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269269
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-04-LED-E1-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21329.5 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G4

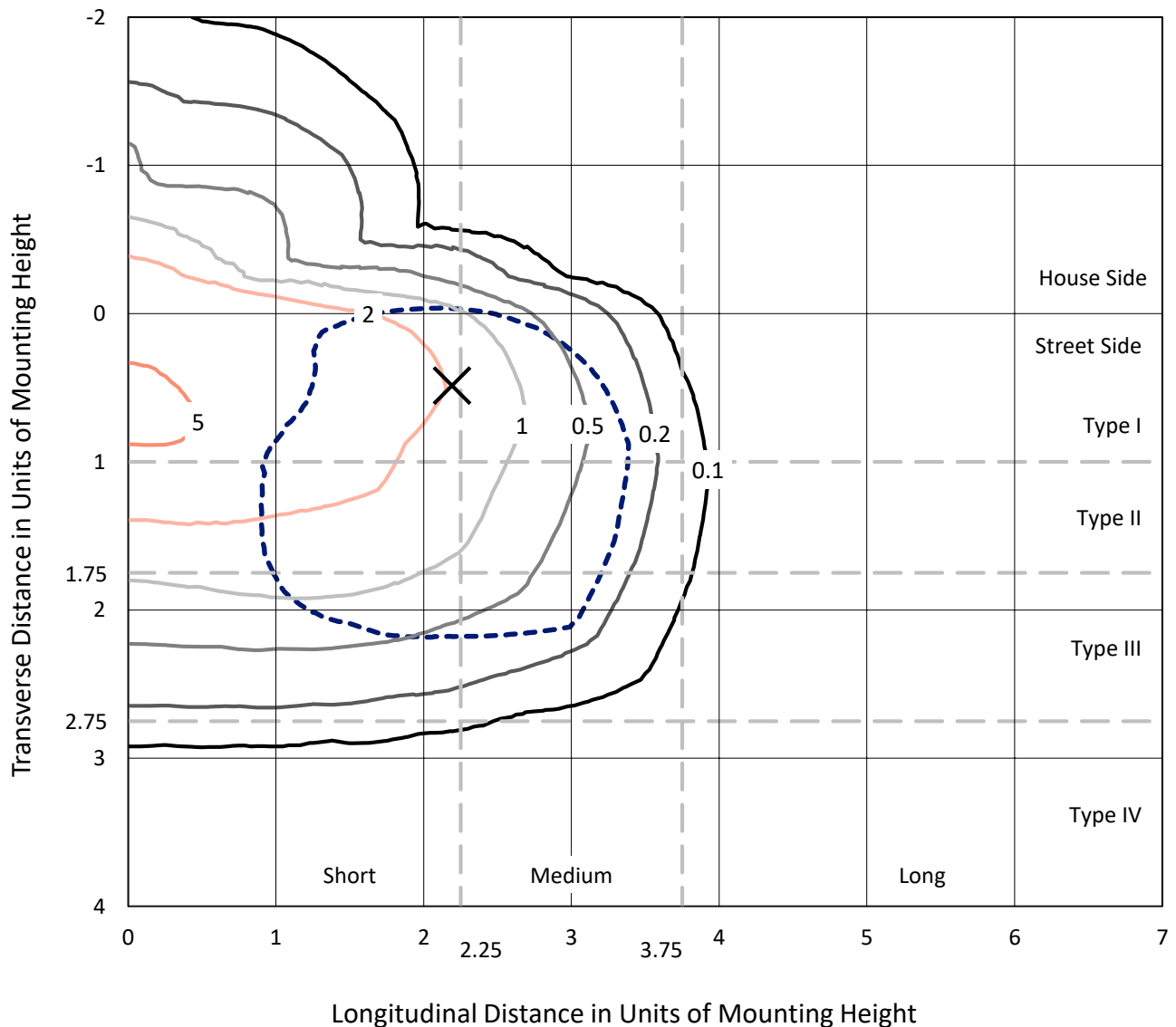
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

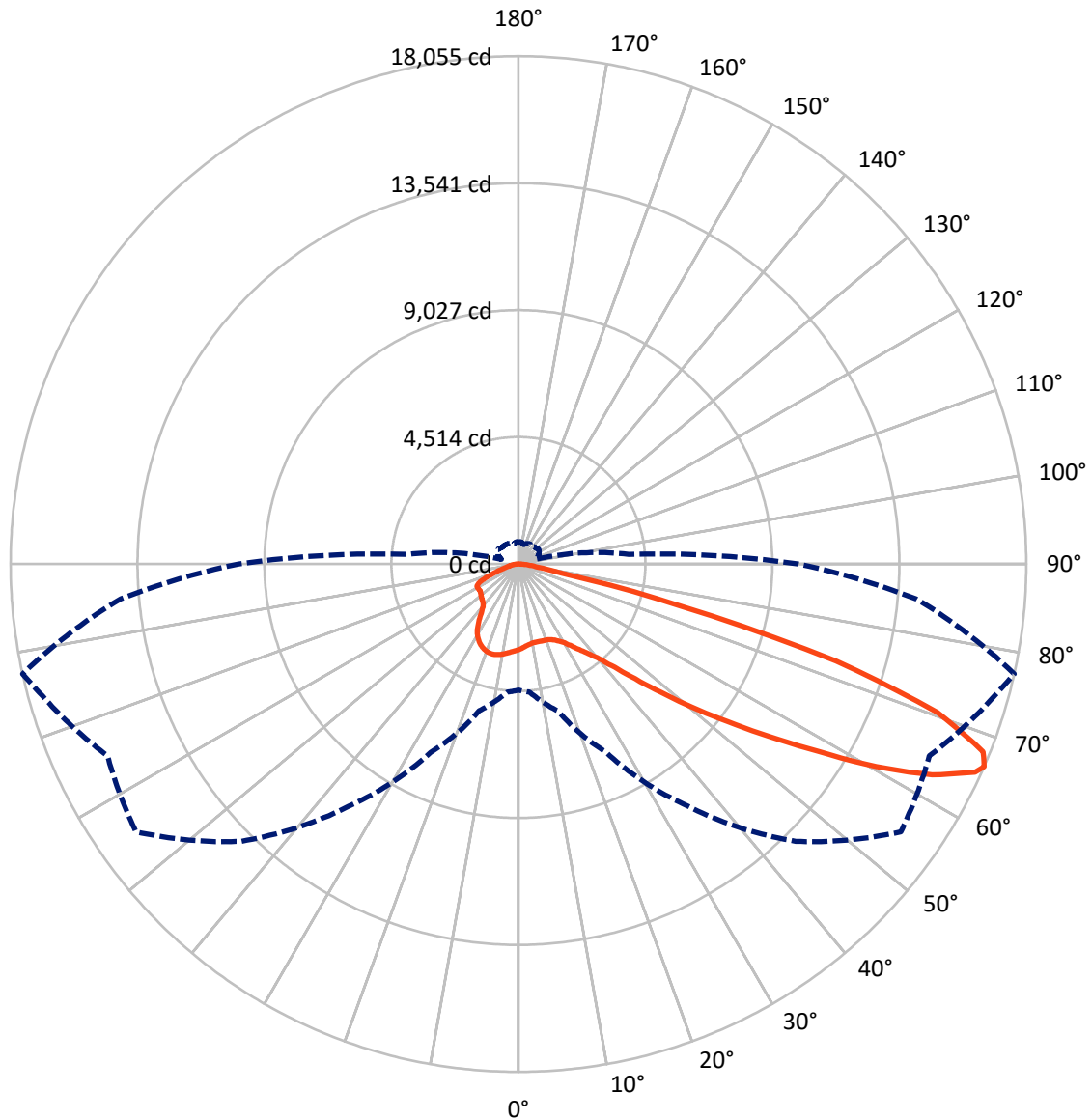
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3644.0	0.0	3644.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	17685.5	0.0	17685.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	21329.5	0.0	21329.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	1.3
10°-20°	766.1	3.6
20°-30°	1307.5	6.1
30°-40°	2093.1	9.8
40°-50°	3233.6	15.2
50°-60°	4586.3	21.5
60°-70°	6135.3	28.8
70°-80°	2664.4	12.5
80°-90°	271.7	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°	21329.5	100.0
0°-180°	21329.5	100.0

Coefficient of Utilization



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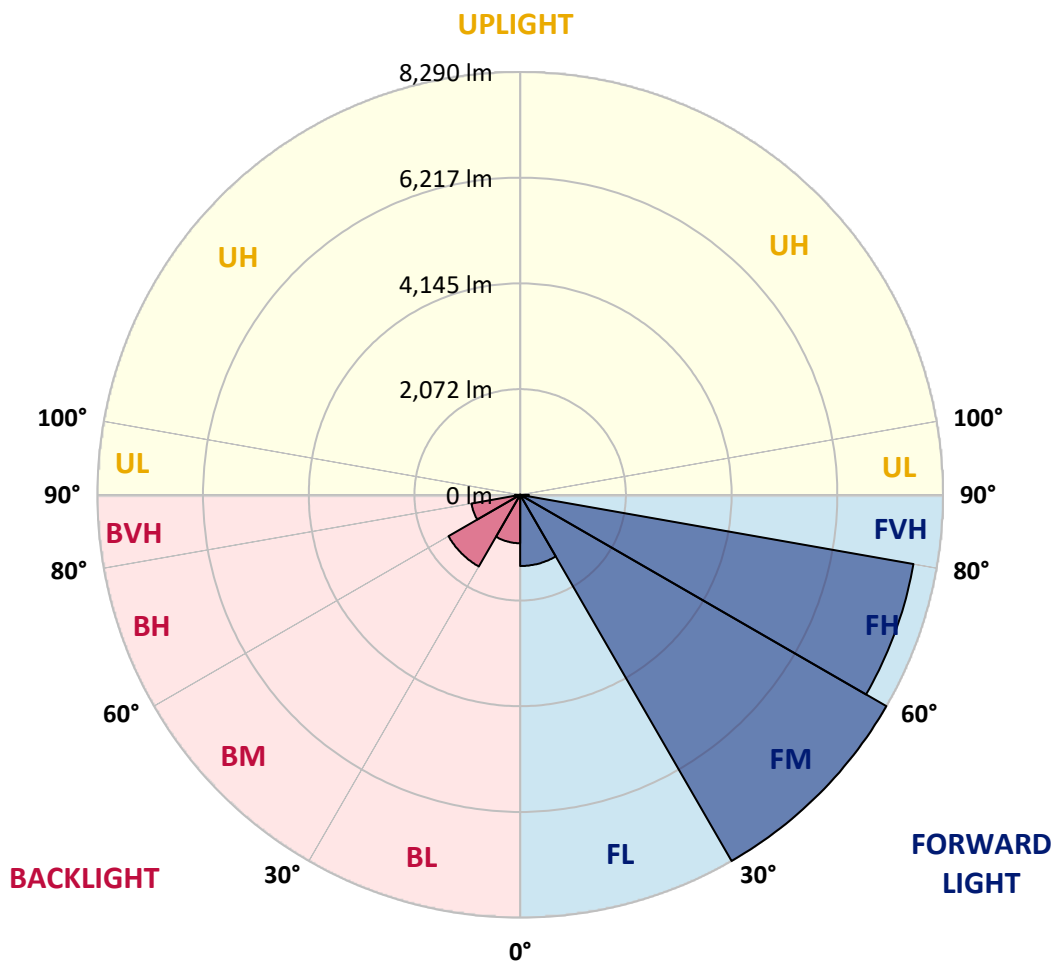
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.1	6.5			
FM	(30°-60°)	8289.8	38.9			
FH	(60°-80°)	7829.2	36.7			G4/12000
FVH	(80°-90°)	170.4	0.8			G2/225
BL	(0°-30°)	949.1	4.4	B2/1000		
BM	(30°-60°)	1623.2	7.6	B2/2500		
BH	(60°-80°)	970.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	101.3	0.5			G2/225
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°	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5
2.5°	2688.8	2707.0	2722.1	2736.1	2764.4	2810.7	2864.2	2907.5	2970.1	2982.2	3015.4
5°	2442.0	2442.0	2454.0	2475.2	2513.5	2583.0	2655.6	2752.3	2888.4	2920.6	3009.3
7.5°	2321.9	2322.9	2330.1	2348.2	2381.4	2444.9	2524.5	2638.4	2822.8	2876.4	3027.5
10°	2366.3	2356.3	2341.2	2332.1	2337.1	2374.4	2449.9	2577.0	2782.6	2851.1	3067.8
12.5°	2614.2	2595.2	2542.7	2473.2	2406.6	2379.4	2423.7	2547.8	2765.4	2845.0	3121.3
15°	3019.5	3011.4	2913.7	2769.5	2608.1	2473.2	2442.9	2536.6	2767.5	2852.1	3184.8
17.5°	3527.4	3516.2	3387.2	3177.7	2914.6	2651.5	2510.5	2545.7	2774.5	2864.2	3246.1
20°	4040.3	4006.0	3866.9	3617.0	3279.4	2894.5	2622.3	2569.0	2783.6	2877.4	3310.7
22.5°	4423.3	4395.0	4270.2	4027.2	3638.1	3175.6	2772.4	2609.2	2812.9	2915.5	3390.3
25°	4759.8	4761.9	4637.9	4403.1	4001.1	3473.9	2966.1	2717.1	2887.4	2994.2	3499.1
27.5°	5176.2	5151.9	5036.1	4803.2	4359.8	3775.2	3199.9	2865.2	2998.3	3106.1	3642.3
30°	5674.0	5656.8	5522.8	5258.8	4758.0	4098.7	3466.9	3037.6	3141.4	3253.2	3829.7
32.5°	6259.5	6251.5	6112.3	5772.8	5217.4	4479.8	3780.2	3265.2	3355.0	3471.0	4098.7
35°	6946.9	6947.9	6783.6	6375.5	5720.3	4923.3	4136.1	3558.5	3615.0	3736.1	4419.2
37.5°	7370.1	7421.5	7360.1	6943.8	6289.8	5419.0	4597.6	3947.6	3911.3	4033.3	4763.0
40°	7460.9	7523.3	7717.8	7506.1	6926.7	5965.3	5006.9	4321.4	4276.1	4425.3	5205.4
42.5°	7333.9	7420.4	7831.8	7980.9	7603.0	6638.5	5557.1	4876.8	4819.3	5019.9	5755.6
45°	7258.2	7322.8	7798.5	8227.8	8189.5	7399.3	6257.6	5574.3	5553.1	5816.0	6390.5
47.5°	7127.2	7185.7	7643.3	8285.2	8534.2	8096.8	7099.0	6426.8	6468.2	6812.8	7107.1
50°	7197.8	7222.0	7469.9	8139.2	8633.9	8607.6	8039.3	7414.5	7555.6	7985.9	7918.4
52.5°	7187.7	7250.2	7449.7	7899.2	8647.1	8923.1	8965.5	8516.0	8813.4	9307.2	8818.3
55°	5811.0	5925.8	7212.9	7838.8	8693.3	9232.6	9789.9	9677.0	10231.3	10806.8	9834.3
57.5°	5549.0	5621.6	6335.0	7965.7	8939.4	9823.1	10707.0	10954.9	11882.2	12550.3	11071.8
60°	5497.5	5587.3	6326.0	8120.9	9438.1	10785.6	12066.6	12501.9	13890.8	14622.3	12506.9
62.5°	5337.4	5434.1	6266.5	8100.7	10146.6	12117.0	13806.9	14146.7	15795.4	16507.0	13707.2
65°	4829.5	4920.1	5781.9	7775.3	10624.3	13537.9	15867.0	15654.4	17299.1	17834.2	14305.9
66°	4481.7	4570.4	5399.8	7392.3	10513.6	13941.1	16596.6	16121.0	17635.7	18054.9	14189.0
67.5°	3845.9	3915.4	4658.2	6534.7	9923.9	14054.0	17210.4	16471.7	17671.0	17819.0	13520.7
70°	2429.8	2449.9	3027.5	4511.0	7512.3	12188.6	16276.2	15601.0	16213.7	15812.5	11334.9
72.5°	1054.3	1047.2	1453.3	2294.8	4252.9	8178.3	13166.1	12872.8	12718.7	11803.5	7934.5
75°	586.6	594.6	754.8	1065.3	1728.3	4017.1	8612.8	8241.9	6958.9	5938.1	3597.9
77.5°	470.6	481.8	625.8	755.8	776.0	1400.8	4030.2	3279.4	1974.4	1584.3	999.8
80°	371.9	392.0	546.2	588.6	523.1	577.5	1302.2	1041.0	781.0	716.6	518.1
82.5°	294.3	308.4	468.6	445.5	365.8	389.1	623.9	607.8	507.9	462.5	299.3
85°	211.6	237.8	385.0	335.5	239.8	262.0	414.2	397.1	291.3	237.8	132.1
87.5°	86.6	112.8	272.0	222.7	134.0	121.9	206.6	194.6	138.1	100.8	65.4
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°	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5
2.5°	3036.5	3060.7	3092.0	3111.1	3121.3	3128.3	3139.3	3138.3	3141.4	3142.4	3146.5
5°	3056.8	3096.9	3142.4	3154.5	3154.5	3143.3	3132.3	3114.2	3107.1	3105.1	3107.1
7.5°	3109.2	3153.4	3192.8	3178.7	3148.4	3104.1	3046.6	2996.2	2969.0	2959.9	2957.8
10°	3175.6	3229.0	3245.1	3191.8	3103.0	2996.2	2882.3	2799.7	2752.3	2739.2	2735.2
12.5°	3256.3	3306.7	3284.5	3171.6	3007.3	2835.1	2677.8	2545.7	2447.0	2415.7	2413.7
15°	3344.8	3384.3	3306.7	3109.2	2864.2	2610.3	2330.1	2102.4	1979.3	1940.0	1937.0
17.5°	3427.6	3447.8	3293.5	3000.2	2653.6	2242.3	1870.5	1695.1	1652.8	1662.9	1664.9
20°	3498.1	3498.1	3249.2	2844.0	2321.9	1757.7	1522.7	1519.8	1550.0	1580.3	1586.2
22.5°	3575.8	3529.4	3171.6	2623.3	1852.3	1438.1	1404.0	1432.1	1466.4	1499.6	1504.8
25°	3671.5	3554.6	3063.8	2288.7	1456.3	1306.1	1319.3	1342.3	1359.6	1380.8	1383.7
27.5°	3778.4	3586.8	2921.6	1828.2	1263.7	1223.5	1233.6	1241.6	1239.7	1247.7	1249.7
30°	3906.3	3624.1	2727.2	1429.1	1184.1	1153.0	1134.7	1127.7	1127.7	1140.8	1145.9
32.5°	4077.5	3679.5	2448.1	1224.5	1145.9	1102.5	1044.1	1017.9	1028.0	1072.2	1082.4
35°	4266.1	3738.9	2070.1	1155.0	1137.9	1079.4	988.7	940.3	941.3	982.7	995.7
37.5°	4471.7	3814.6	1655.8	1141.8	1155.9	1080.4	959.4	892.9	865.6	865.6	870.7
40°	4734.6	3892.1	1340.5	1150.9	1194.2	1092.5	944.3	855.6	779.0	781.0	785.1
42.5°	5077.4	3958.7	1171.1	1170.0	1240.6	1108.6	943.3	806.3	739.8	785.1	826.4
45°	5458.3	3992.0	1096.6	1187.2	1277.8	1118.7	927.2	798.1	744.8	879.8	958.4
47.5°	5896.7	3972.8	1055.1	1193.3	1287.0	1118.7	909.1	817.4	780.1	1018.9	1110.7
50°	6377.4	3917.4	1014.8	1181.1	1283.9	1116.7	926.2	836.5	793.2	1043.1	1106.6
52.5°	6942.8	3870.9	972.5	1155.0	1262.7	1105.5	946.4	828.4	751.8	948.3	992.6
55°	7587.9	3884.1	925.2	1117.8	1229.5	1084.4	939.3	796.2	708.6	835.5	862.7
57.5°	8412.2	4040.3	868.8	1070.3	1184.1	1049.1	914.0	781.0	695.4	757.9	774.0
60°	9332.3	4312.5	798.1	1022.9	1127.7	992.6	894.9	788.2	701.4	751.8	759.8
62.5°	10007.6	4470.7	737.7	953.5	1051.1	930.3	870.7	797.2	717.6	773.0	770.9
65°	10191.0	4210.6	662.1	851.7	947.4	864.7	840.5	807.2	724.7	790.1	781.0
66°	9933.9	3930.4	628.9	804.3	894.9	832.5	825.5	806.3	721.6	792.1	777.0
67.5°	9310.2	3356.0	571.4	734.8	811.3	784.1	801.2	797.2	713.6	790.1	768.9
70°	7592.8	2289.8	488.8	611.7	675.3	690.3	754.8	764.9	687.4	754.8	708.6
72.5°	5305.1	1394.8	432.4	474.7	546.2	588.6	691.3	720.6	652.1	659.0	614.8
75°	2563.9	740.7	392.0	367.9	424.3	491.8	614.8	660.2	596.7	551.3	535.1
77.5°	799.2	452.4	332.6	296.4	332.6	397.1	514.0	578.5	531.1	461.5	455.5
80°	429.3	332.6	255.9	237.8	263.1	311.4	404.1	482.7	456.6	414.2	369.8
82.5°	283.1	215.7	189.5	184.4	200.5	237.8	300.4	400.1	400.1	354.7	258.1
85°	146.2	132.1	130.1	130.1	140.0	158.2	204.5	308.4	328.5	187.4	155.1
87.5°	72.6	75.5	70.5	73.7	78.6	77.7	97.7	155.1	185.4	113.8	94.7
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)