

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: P191501

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191501
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-03-LED-E1-T3R-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20849.8 lumens
Efficiency: N/A
Efficacy: 109.2 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

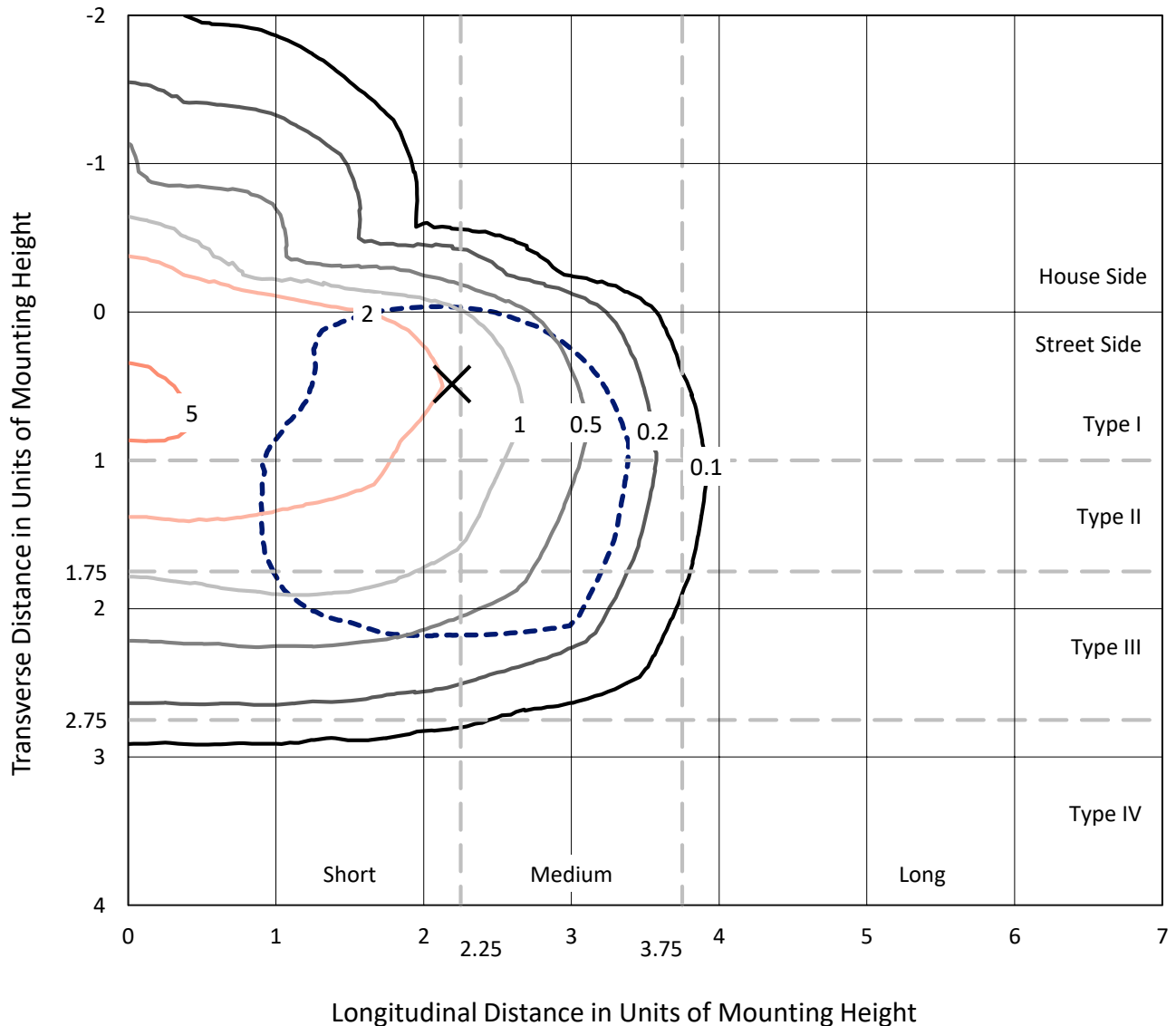
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

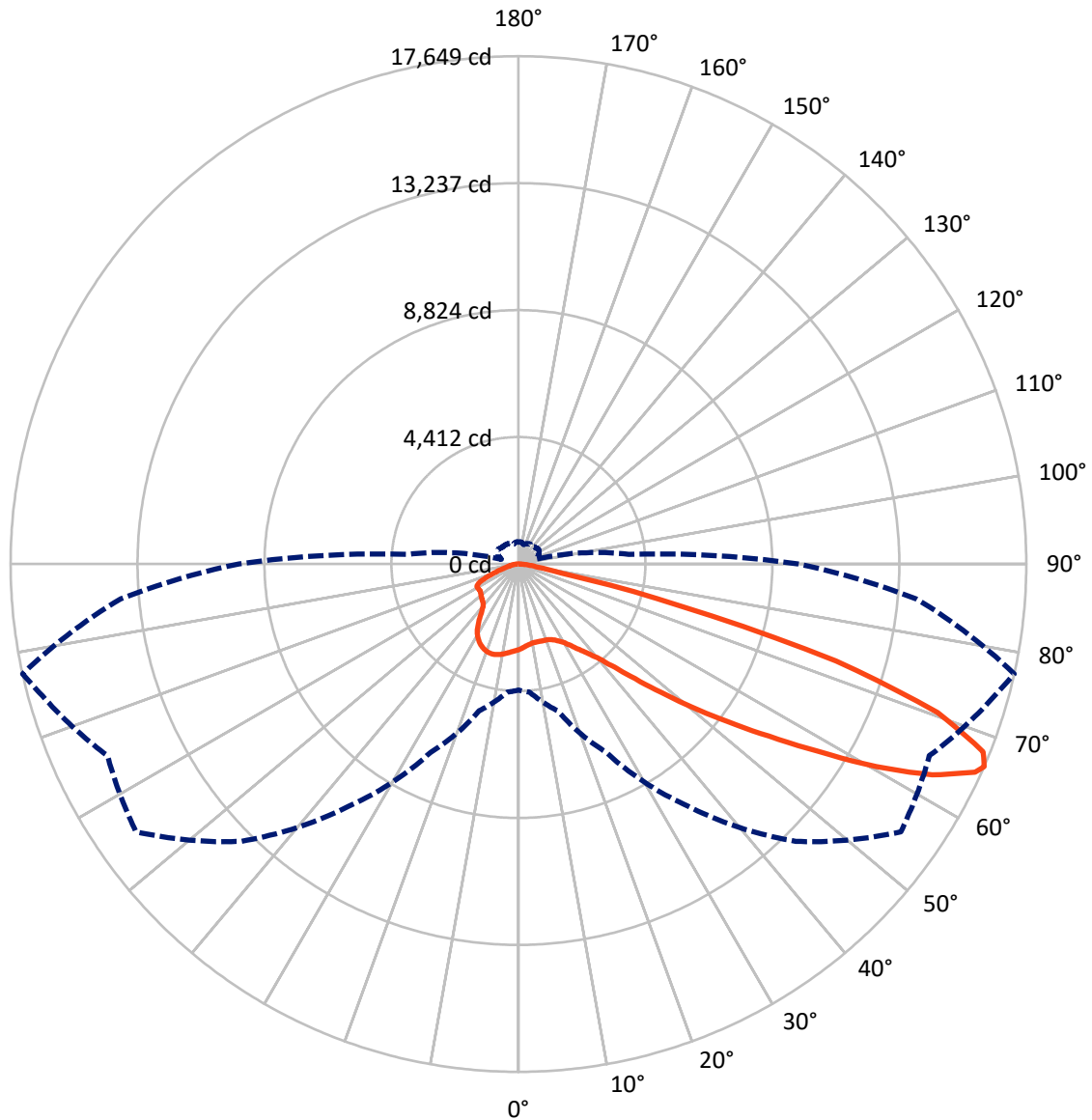
× Max cd
 - - - 1/2 Max cd



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	3562.1	0.0	3562.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	17287.7	0.0	17287.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	20849.8	0.0	20849.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	1.3
10°-20°	748.9	3.6
20°-30°	1278.1	6.1
30°-40°	2046.0	9.8
40°-50°	3160.8	15.2
50°-60°	4483.2	21.5
60°-70°	5997.3	28.8
70°-80°	2604.5	12.5
80°-90°	265.6	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°	20849.8	100.0
0°-180°	20849.8	100.0



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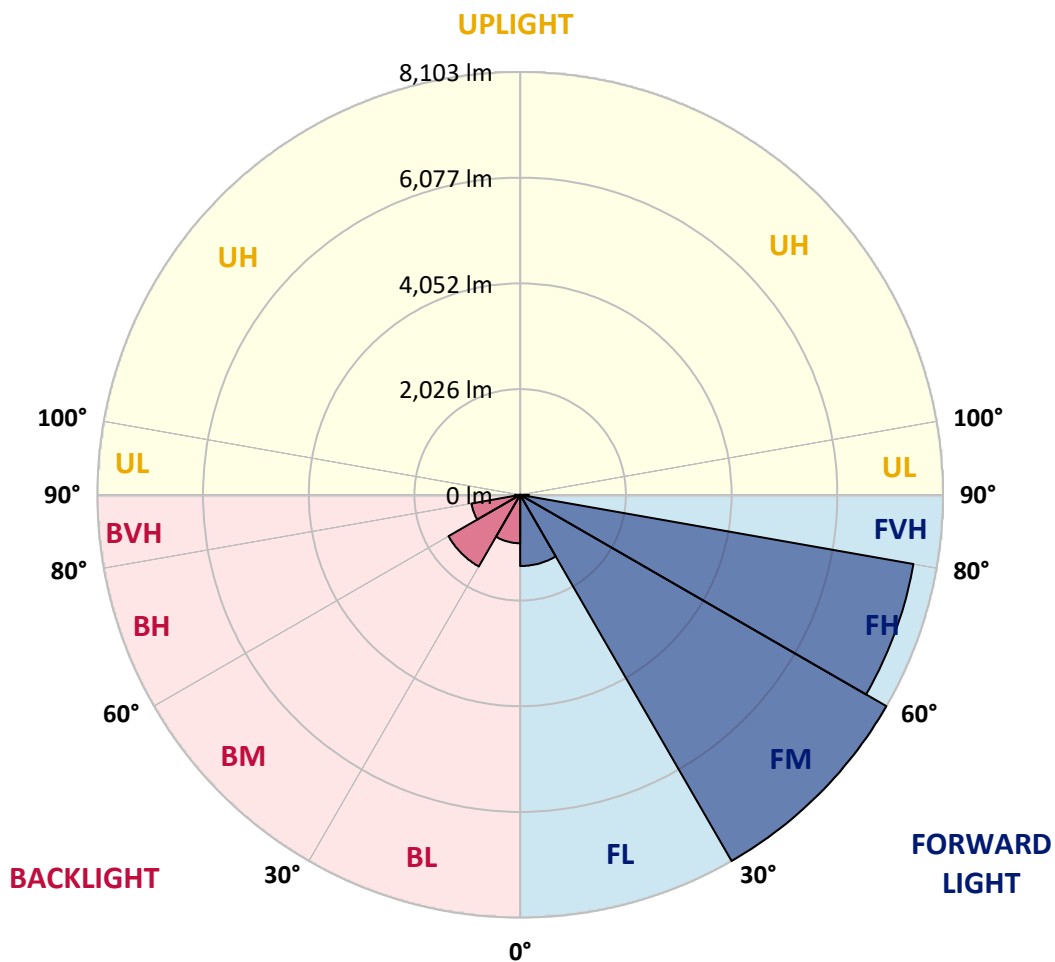
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.7	6.5			
FM	(30°-60°)	8103.3	38.9			
FH	(60°-80°)	7653.1	36.7			G4/12000
FVH	(80°-90°)	166.6	0.8			G2/225
BL	(0°-30°)	927.7	4.4	B2/1000		
BM	(30°-60°)	1586.7	7.6	B2/2500		
BH	(60°-80°)	948.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	99.0	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°	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2
2.5°	2628.4	2646.1	2660.9	2674.7	2702.2	2747.5	2799.8	2842.2	2903.2	2915.0	2947.5
5°	2387.0	2387.0	2398.8	2419.5	2456.9	2524.9	2595.8	2690.5	2823.4	2855.0	2941.6
7.5°	2269.7	2270.7	2277.7	2295.4	2327.9	2389.9	2467.8	2579.1	2759.4	2811.6	2959.4
10°	2313.1	2303.3	2288.4	2279.6	2284.6	2321.0	2394.9	2519.0	2720.0	2786.9	2998.8
12.5°	2555.4	2536.7	2485.6	2417.5	2352.5	2325.9	2369.3	2490.5	2703.2	2781.1	3051.0
15°	2951.5	2943.6	2848.1	2707.1	2549.6	2417.5	2388.0	2479.6	2705.2	2788.0	3113.0
17.5°	3448.0	3437.2	3311.1	3106.2	2849.0	2592.0	2454.0	2488.4	2712.1	2799.8	3173.2
20°	3949.4	3916.0	3780.0	3535.7	3205.6	2829.4	2563.3	2511.1	2720.9	2812.6	3236.2
22.5°	4323.8	4296.2	4174.0	3936.6	3556.4	3104.1	2710.1	2550.5	2749.5	2850.0	3314.1
25°	4652.8	4654.8	4533.6	4304.1	3911.0	3395.8	2899.2	2656.0	2822.4	2926.9	3420.4
27.5°	5059.7	5036.1	4922.7	4695.2	4261.7	3690.4	3127.9	2800.7	2930.8	3036.2	3560.3
30°	5546.3	5529.6	5398.6	5140.4	4650.8	4006.6	3388.9	2969.2	3070.7	3180.0	3743.6
32.5°	6118.7	6110.8	5974.9	5642.9	5100.1	4378.9	3695.3	3191.9	3279.6	3392.8	4006.6
35°	6790.6	6791.6	6631.0	6232.0	5591.7	4812.5	4043.0	3478.5	3533.7	3651.9	4319.8
37.5°	7204.3	7254.6	7194.5	6787.7	6148.2	5297.1	4494.2	3858.8	3823.4	3942.6	4655.8
40°	7293.0	7354.1	7544.3	7337.3	6770.9	5831.0	4894.2	4224.3	4180.0	4325.8	5088.3
42.5°	7168.8	7253.6	7655.6	7801.3	7431.9	6489.2	5432.1	4767.2	4711.0	4907.0	5626.1
45°	7095.0	7158.1	7623.0	8042.7	8005.3	7232.9	6116.7	5448.8	5428.2	5685.3	6246.8
47.5°	6966.9	7024.1	7471.3	8098.9	8342.2	7914.7	6939.4	6282.2	6322.7	6659.6	6947.3
50°	7035.9	7059.6	7301.9	7956.0	8439.8	8414.1	7858.5	7247.7	7385.6	7806.2	7740.3
52.5°	7026.0	7087.1	7282.2	7721.5	8452.5	8722.5	8763.8	8324.5	8615.1	9097.8	8620.0
55°	5680.3	5792.7	7050.7	7662.4	8497.9	9024.9	9569.7	9459.3	10001.2	10563.7	9613.1
57.5°	5424.2	5495.1	6192.6	7786.6	8738.3	9602.2	10466.1	10708.6	11614.9	12268.0	10822.8
60°	5374.0	5461.6	6183.7	7938.3	9225.9	10543.0	11795.1	12220.7	13578.2	14293.5	12225.6
62.5°	5217.4	5311.9	6125.6	7918.6	9918.4	11844.3	13496.5	13828.5	15440.1	16135.6	13398.9
65°	4720.8	4809.5	5651.8	7600.4	10385.4	13233.4	15510.1	15302.2	16910.0	17433.1	13984.1
66°	4380.9	4467.6	5278.4	7226.0	10277.0	13627.4	16223.4	15758.4	17239.1	17648.9	13869.9
67.5°	3759.3	3827.3	4553.4	6387.7	9700.7	13737.8	16823.3	16101.1	17273.5	17418.3	13216.7
70°	2375.2	2394.9	2959.4	4409.5	7343.3	11914.3	15910.1	15250.0	15849.0	15456.9	11079.9
72.5°	1030.4	1023.6	1420.6	2243.1	4157.3	7994.5	12869.9	12583.2	12432.5	11538.0	7756.0
75°	573.4	581.2	737.9	1041.3	1689.5	3926.8	8419.0	8056.5	6802.4	5804.4	3517.0
77.5°	460.0	470.9	611.7	738.9	758.5	1369.3	3939.6	3205.6	1929.9	1548.6	977.2
80°	363.6	383.2	534.0	575.3	511.3	564.5	1272.8	1017.6	763.5	700.4	506.4
82.5°	287.7	301.5	458.1	435.5	357.6	380.2	609.8	594.0	496.5	452.1	292.6
85°	206.8	232.5	376.3	328.1	234.5	256.1	404.9	388.1	284.7	232.5	129.1
87.5°	84.7	110.4	266.0	217.7	131.0	119.2	201.9	190.2	134.9	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°	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2
2.5°	2968.2	2991.9	3022.4	3041.1	3051.0	3057.9	3068.8	3067.7	3070.7	3071.7	3075.6
5°	2987.9	3027.3	3071.7	3083.5	3083.5	3072.6	3061.8	3044.1	3037.2	3035.2	3037.2
7.5°	3039.2	3082.6	3120.9	3107.1	3077.5	3034.3	2978.1	2928.8	2902.2	2893.4	2891.4
10°	3104.1	3156.4	3172.2	3120.0	3033.3	2928.8	2817.5	2736.7	2690.5	2677.6	2673.7
12.5°	3183.0	3232.2	3210.6	3100.3	2939.7	2771.2	2617.5	2488.4	2392.0	2361.4	2359.4
15°	3269.7	3308.1	3232.2	3039.2	2799.8	2551.5	2277.7	2055.0	1934.8	1896.4	1893.5
17.5°	3350.5	3370.2	3219.4	2932.8	2593.9	2192.0	1828.4	1657.0	1615.6	1625.5	1627.4
20°	3419.4	3419.4	3176.1	2780.1	2269.7	1718.0	1488.6	1485.6	1515.2	1544.7	1550.6
22.5°	3495.3	3450.0	3100.3	2564.3	1810.7	1405.8	1372.3	1399.9	1433.4	1465.9	1470.8
25°	3588.9	3474.6	2994.8	2237.3	1423.5	1276.7	1289.5	1312.2	1328.9	1349.7	1352.6
27.5°	3693.3	3506.2	2856.0	1787.1	1235.4	1195.9	1205.9	1213.7	1211.7	1219.6	1221.6
30°	3818.4	3542.6	2665.8	1396.9	1157.6	1127.0	1109.3	1102.3	1102.3	1115.2	1120.1
32.5°	3985.9	3596.8	2392.9	1197.0	1120.1	1077.8	1020.6	995.0	1004.8	1048.2	1058.0
35°	4170.2	3654.9	2023.5	1128.9	1112.3	1055.1	966.4	919.1	920.1	960.6	973.3
37.5°	4371.1	3728.8	1618.6	1116.1	1130.0	1056.1	937.8	872.9	846.3	846.3	851.2
40°	4628.2	3804.7	1310.2	1125.0	1167.4	1067.9	923.1	836.4	761.5	763.5	767.4
42.5°	4963.2	3869.6	1144.8	1143.8	1212.7	1083.6	922.1	788.1	723.1	767.4	807.8
45°	5335.5	3902.1	1071.8	1160.5	1249.1	1093.5	906.3	780.2	728.0	860.0	936.9
47.5°	5764.1	3883.4	1031.4	1166.4	1258.0	1093.5	888.6	798.9	762.5	995.9	1085.7
50°	6234.0	3829.2	992.1	1154.6	1255.1	1091.5	905.3	817.6	775.3	1019.6	1081.7
52.5°	6786.7	3783.9	950.6	1128.9	1234.4	1080.7	925.1	809.8	734.9	927.0	970.4
55°	7417.1	3796.8	904.4	1092.5	1201.9	1060.0	918.2	778.3	692.5	816.7	843.3
57.5°	8223.0	3949.4	849.2	1046.2	1157.6	1025.5	893.5	763.5	679.8	740.8	756.6
60°	9122.5	4215.5	780.2	999.9	1102.3	970.4	874.8	770.4	685.7	734.9	742.8
62.5°	9782.5	4370.1	721.1	931.9	1027.6	909.3	851.2	779.3	701.4	755.7	753.6
65°	9961.8	4115.9	647.2	832.5	926.1	845.3	821.6	789.1	708.3	772.3	763.5
66°	9710.6	3842.1	614.7	786.1	874.8	813.8	806.8	788.1	705.3	774.4	759.5
67.5°	9100.8	3280.5	558.5	718.2	793.0	766.4	783.2	779.3	697.4	772.3	751.7
70°	7422.1	2238.2	477.8	598.0	660.0	674.8	737.9	747.7	671.9	737.9	692.5
72.5°	5185.7	1363.4	422.6	464.0	534.0	575.3	675.8	704.4	637.4	644.3	601.0
75°	2506.2	724.0	383.2	359.6	414.7	480.8	601.0	645.3	583.2	538.9	523.1
77.5°	781.2	442.3	325.1	289.6	325.1	388.1	502.5	565.5	519.1	451.2	445.3
80°	419.7	325.1	250.2	232.5	257.2	304.4	395.1	471.9	446.3	404.9	361.5
82.5°	276.8	210.8	185.3	180.2	196.0	232.5	293.6	391.1	391.1	346.8	252.2
85°	142.8	129.1	127.1	127.1	137.0	154.7	200.0	301.5	321.2	183.2	151.7
87.5°	70.9	73.9	68.9	71.9	76.8	75.9	95.5	151.7	181.3	111.3	92.6
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)