

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: P192282

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192282
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19835 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

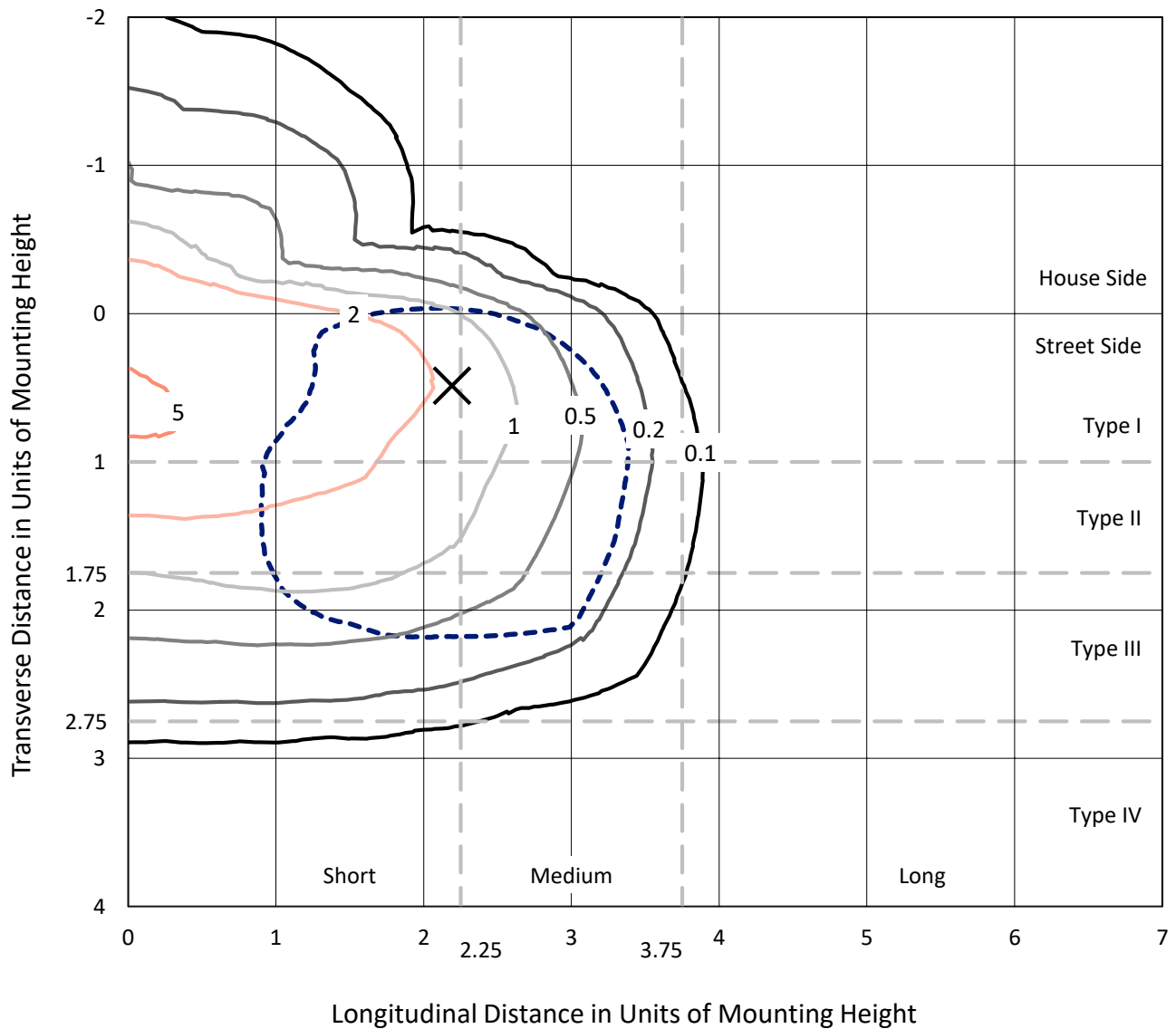


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Iso-Footcandle Lines of Horizontal Illumination

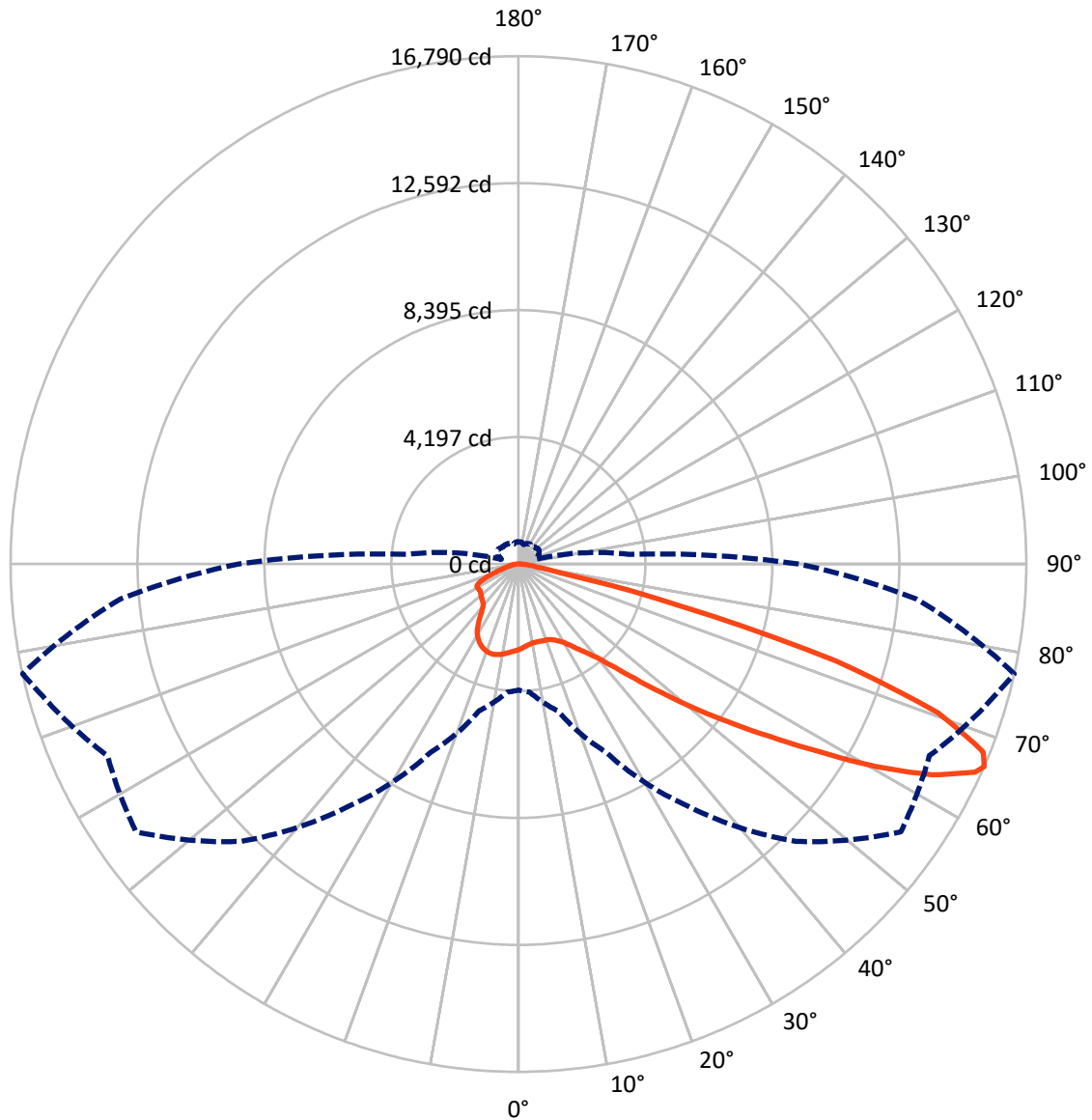
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	3388.7	0.0	3388.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16446.3	0.0	16446.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	19835.0	0.0	19835.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.3
10°-20°	712.4	3.6
20°-30°	1215.9	6.1
30°-40°	1946.4	9.8
40°-50°	3007.0	15.2
50°-60°	4265.0	21.5
60°-70°	5705.4	28.8
70°-80°	2477.7	12.5
80°-90°	252.7	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°	19835.0	100.0
0°-180°	19835.0	100.0



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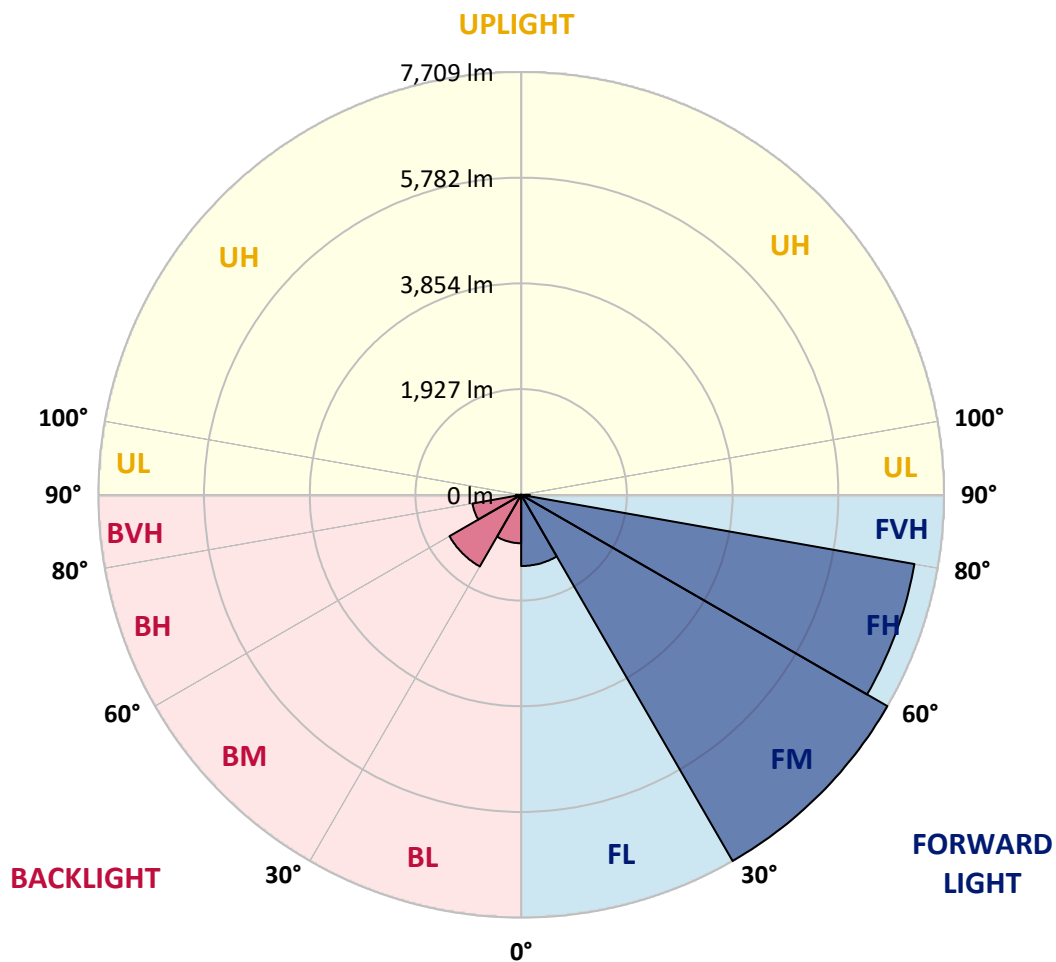
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.3	6.5			
FM (30°-60°)	7708.9	38.9			
FH (60°-80°)	7280.7	36.7			G3/7500
FVH (80°-90°)	158.5	0.8			G2/225
BL (0°-30°)	882.6	4.4	B2/1000		
BM (30°-60°)	1509.5	7.6	B2/2500		
BH (60°-80°)	902.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	94.2	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6
2.5°	2500.4	2517.3	2531.4	2544.5	2570.7	2613.8	2663.5	2703.8	2761.9	2773.2	2804.1
5°	2270.8	2270.8	2282.1	2301.8	2337.4	2402.0	2469.5	2559.5	2686.0	2716.0	2798.5
7.5°	2159.3	2160.2	2166.8	2183.7	2214.6	2273.6	2347.7	2453.6	2625.1	2674.8	2815.3
10°	2200.5	2191.2	2177.1	2168.7	2173.4	2208.0	2278.3	2396.4	2587.6	2651.3	2852.8
12.5°	2431.1	2413.3	2364.5	2299.9	2238.0	2212.7	2254.0	2369.2	2571.7	2645.7	2902.5
15°	2807.8	2800.3	2709.4	2575.4	2425.5	2299.9	2271.8	2358.9	2573.5	2652.3	2961.5
17.5°	3280.2	3269.9	3149.9	2955.0	2710.4	2465.8	2334.6	2367.4	2580.1	2663.5	3018.7
20°	3757.2	3725.4	3596.0	3363.6	3049.6	2691.6	2438.6	2388.9	2588.5	2675.7	3078.7
22.5°	4113.4	4087.1	3970.9	3745.0	3383.3	2953.1	2578.2	2426.4	2615.7	2711.3	3152.7
25°	4426.4	4428.2	4313.0	4094.6	3720.7	3230.5	2758.2	2526.7	2685.1	2784.4	3253.9
27.5°	4813.4	4790.9	4683.2	4466.7	4054.3	3510.7	2975.6	2664.4	2788.2	2888.4	3387.0
30°	5276.4	5260.5	5135.8	4890.3	4424.5	3811.6	3224.0	2824.7	2921.2	3025.3	3561.3
32.5°	5820.9	5813.4	5684.1	5368.3	4851.9	4165.8	3515.4	3036.5	3119.9	3227.7	3811.6
35°	6460.1	6461.0	6308.3	5928.7	5319.5	4578.2	3846.3	3309.2	3361.7	3474.2	4109.6
37.5°	6853.7	6901.5	6844.3	6457.3	5849.0	5039.3	4275.5	3671.0	3637.3	3750.7	4429.2
40°	6938.1	6996.2	7177.0	6980.2	6441.3	5547.3	4656.0	4018.7	3976.5	4115.2	4840.6
42.5°	6820.0	6900.6	7282.9	7421.7	7070.2	6173.3	5167.7	4535.1	4481.7	4668.2	5352.3
45°	6749.7	6809.7	7252.0	7651.3	7615.7	6880.9	5819.0	5183.6	5163.9	5408.6	5942.8
47.5°	6627.8	6682.2	7107.7	7704.7	7936.2	7529.4	6601.6	5976.5	6014.9	6335.4	6609.1
50°	6693.5	6715.9	6946.5	7568.8	8029.0	8004.6	7476.0	6894.9	7026.2	7426.3	7363.5
52.5°	6684.1	6742.2	6927.7	7345.7	8041.1	8297.9	8337.3	7919.3	8195.8	8655.0	8200.5
55°	5403.9	5510.7	6707.5	7289.5	8084.2	8585.6	9103.9	8999.0	9514.4	10049.5	9145.2
57.5°	5160.2	5227.7	5891.2	7407.6	8312.9	9134.8	9956.8	10187.3	11049.5	11670.9	10296.0
60°	5112.4	5195.8	5882.8	7551.9	8776.8	10029.9	11221.0	11625.9	12917.4	13597.8	11630.6
62.5°	4963.4	5053.4	5827.5	7533.2	9435.7	11267.9	12839.6	13155.4	14688.7	15350.3	12746.8
65°	4491.0	4575.4	5376.7	7230.5	9879.9	12589.3	14755.2	14557.5	16087.0	16584.6	13303.5
66°	4167.7	4250.2	5021.5	6874.3	9776.8	12964.2	15433.7	14991.4	16400.0	16789.9	13194.8
67.5°	3576.3	3641.0	4331.7	6076.8	9228.6	13069.2	16004.5	15317.5	16432.8	16570.6	12573.4
70°	2259.6	2278.3	2815.3	4194.9	6985.9	11334.4	15135.7	14507.8	15077.6	14704.6	10540.6
72.5°	980.3	973.7	1351.4	2134.0	3955.0	7605.3	12243.5	11970.8	11827.4	10976.4	7378.5
75°	545.4	552.9	702.0	990.6	1607.3	3735.7	8009.3	7664.4	6471.3	5522.0	3345.8
77.5°	437.7	448.0	582.0	702.9	721.6	1302.7	3747.8	3049.6	1836.0	1473.3	929.7
80°	345.8	364.6	508.0	547.3	486.4	537.0	1210.9	968.1	726.3	666.3	481.7
82.5°	273.7	286.8	435.8	414.2	340.2	361.8	580.1	565.1	472.3	430.2	278.3
85°	196.8	221.2	358.0	312.1	223.1	243.7	385.2	369.3	270.8	221.2	122.8
87.5°	80.6	105.0	253.0	207.1	124.6	113.4	192.1	180.9	128.4	93.7	60.9
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°	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6	2826.6
2.5°	2823.8	2846.3	2875.3	2893.1	2902.5	2909.1	2919.4	2918.4	2921.2	2922.2	2925.9
5°	2842.5	2880.0	2922.2	2933.4	2933.4	2923.1	2912.8	2895.9	2889.4	2887.5	2889.4
7.5°	2891.2	2932.5	2969.0	2955.9	2927.8	2886.6	2833.1	2786.3	2761.0	2752.5	2750.7
10°	2953.1	3002.8	3017.8	2968.1	2885.6	2786.3	2680.4	2603.5	2559.5	2547.3	2543.5
12.5°	3028.1	3074.9	3054.3	2949.4	2796.6	2636.3	2490.1	2367.4	2275.5	2246.5	2244.6
15°	3110.6	3147.1	3074.9	2891.2	2663.5	2427.3	2166.8	1955.0	1840.7	1804.1	1801.3
17.5°	3187.4	3206.1	3062.8	2790.0	2467.6	2085.3	1739.4	1576.4	1537.0	1546.4	1548.2
20°	3253.0	3253.0	3021.5	2644.8	2159.3	1634.5	1416.1	1413.3	1441.4	1469.5	1475.1
22.5°	3325.2	3282.1	2949.4	2439.5	1722.6	1337.4	1305.5	1331.8	1363.6	1394.5	1399.2
25°	3414.2	3305.5	2849.1	2128.4	1354.2	1214.6	1226.8	1248.3	1264.3	1284.0	1286.8
27.5°	3513.5	3335.5	2716.9	1700.1	1175.2	1137.8	1147.1	1154.6	1152.8	1160.2	1162.1
30°	3632.6	3370.2	2536.1	1328.9	1101.2	1072.2	1055.3	1048.7	1048.7	1060.9	1065.6
32.5°	3791.9	3421.7	2276.4	1138.7	1065.6	1025.3	970.9	946.6	955.9	997.2	1006.5
35°	3967.1	3477.0	1925.0	1074.0	1058.1	1003.7	919.4	874.4	875.3	913.8	925.9
37.5°	4158.3	3547.3	1539.8	1061.8	1075.0	1004.7	892.2	830.4	805.1	805.1	809.7
40°	4402.9	3619.4	1246.5	1070.3	1110.6	1015.9	878.2	795.7	724.5	726.3	730.1
42.5°	4721.6	3681.3	1089.0	1088.1	1153.7	1030.9	877.2	749.8	687.9	730.1	768.5
45°	5075.9	3712.2	1019.7	1104.0	1188.4	1040.3	862.2	742.3	692.6	818.2	891.3
47.5°	5483.5	3694.4	981.2	1109.6	1196.8	1040.3	845.4	760.1	725.4	947.5	1032.8
50°	5930.6	3642.9	943.8	1098.4	1194.0	1038.4	861.3	777.9	737.6	970.0	1029.0
52.5°	6456.3	3599.8	904.4	1074.0	1174.3	1028.1	880.0	770.4	699.1	881.9	923.1
55°	7056.1	3612.0	860.3	1039.3	1143.4	1008.4	873.5	740.4	658.8	776.9	802.2
57.5°	7822.8	3757.2	807.9	995.3	1101.2	975.6	850.0	726.3	646.7	704.8	719.8
60°	8678.4	4010.3	742.3	951.3	1048.7	923.1	832.2	732.9	652.3	699.1	706.6
62.5°	9306.4	4157.4	686.0	886.6	977.5	865.0	809.7	741.3	667.3	718.8	717.0
65°	9476.9	3915.6	615.7	791.9	881.0	804.1	781.6	750.7	673.8	734.8	726.3
66°	9237.9	3655.1	584.8	747.9	832.2	774.1	767.6	749.8	671.0	736.6	722.6
67.5°	8657.8	3120.9	531.4	683.2	754.4	729.1	745.1	741.3	663.5	734.8	715.1
70°	7060.8	2129.3	454.5	568.9	627.9	642.0	702.0	711.3	639.2	702.0	658.8
72.5°	4933.4	1297.1	402.1	441.4	508.0	547.3	642.9	670.1	606.4	612.9	571.7
75°	2384.2	688.8	364.6	342.1	394.6	457.4	571.7	613.9	554.8	512.6	497.7
77.5°	743.2	420.8	309.3	275.5	309.3	369.3	478.0	538.0	493.9	429.2	423.6
80°	399.2	309.3	238.0	221.2	244.6	289.6	375.8	448.9	424.5	385.2	344.0
82.5°	263.4	200.6	176.2	171.5	186.5	221.2	279.3	372.1	372.1	329.9	239.9
85°	135.9	122.8	120.9	120.9	130.3	147.1	190.3	286.8	305.5	174.3	144.3
87.5°	67.5	70.3	65.6	68.4	73.1	72.2	90.9	144.3	172.4	105.9	88.1
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)