

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: P194023

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194023
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-05-LED-E1-T3R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 20054 lumens
Efficiency: N/A
Efficacy: 95.5 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 - G3

Input Watts (W): 210
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

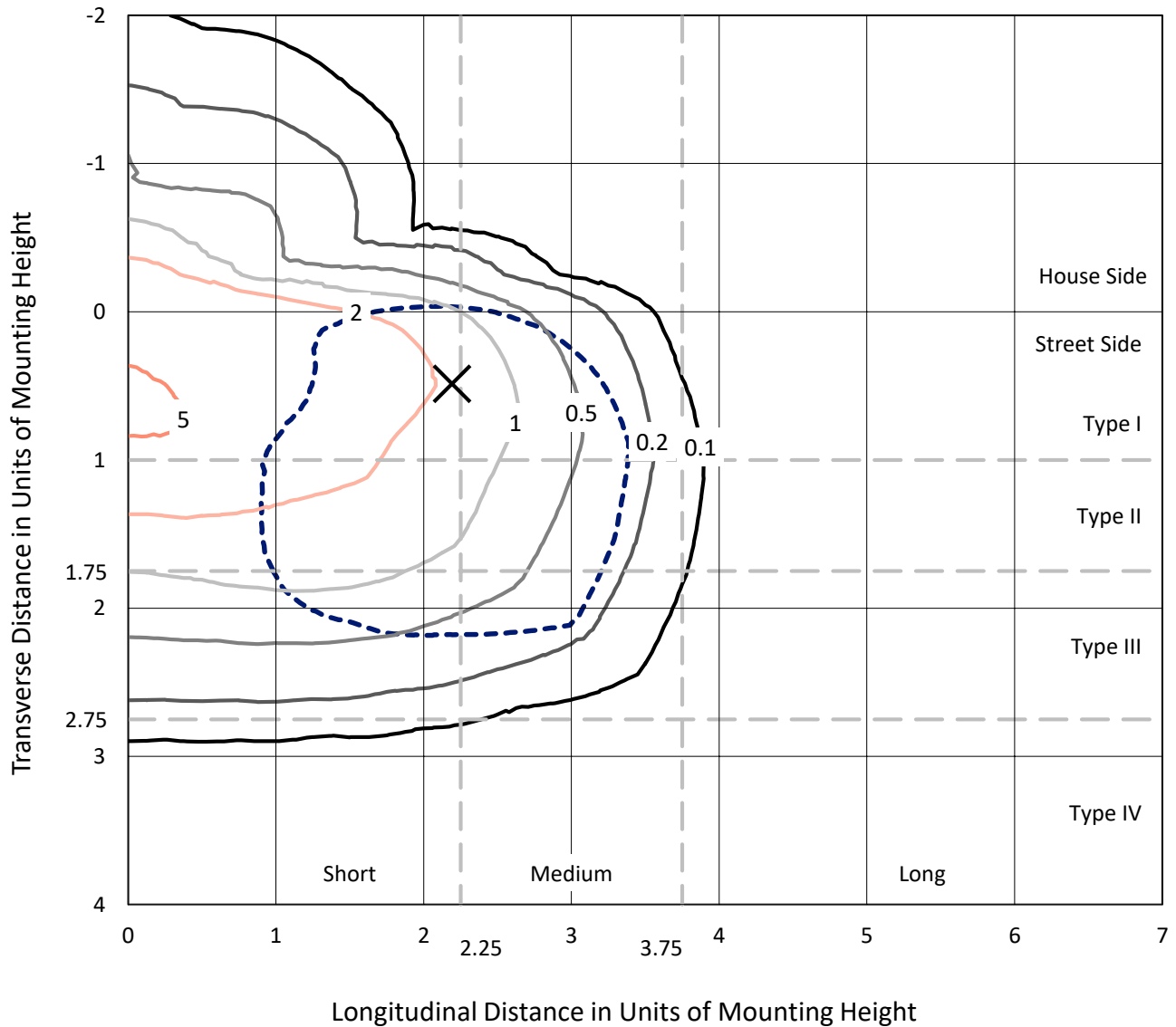


REPORT NUMBER: P194023

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

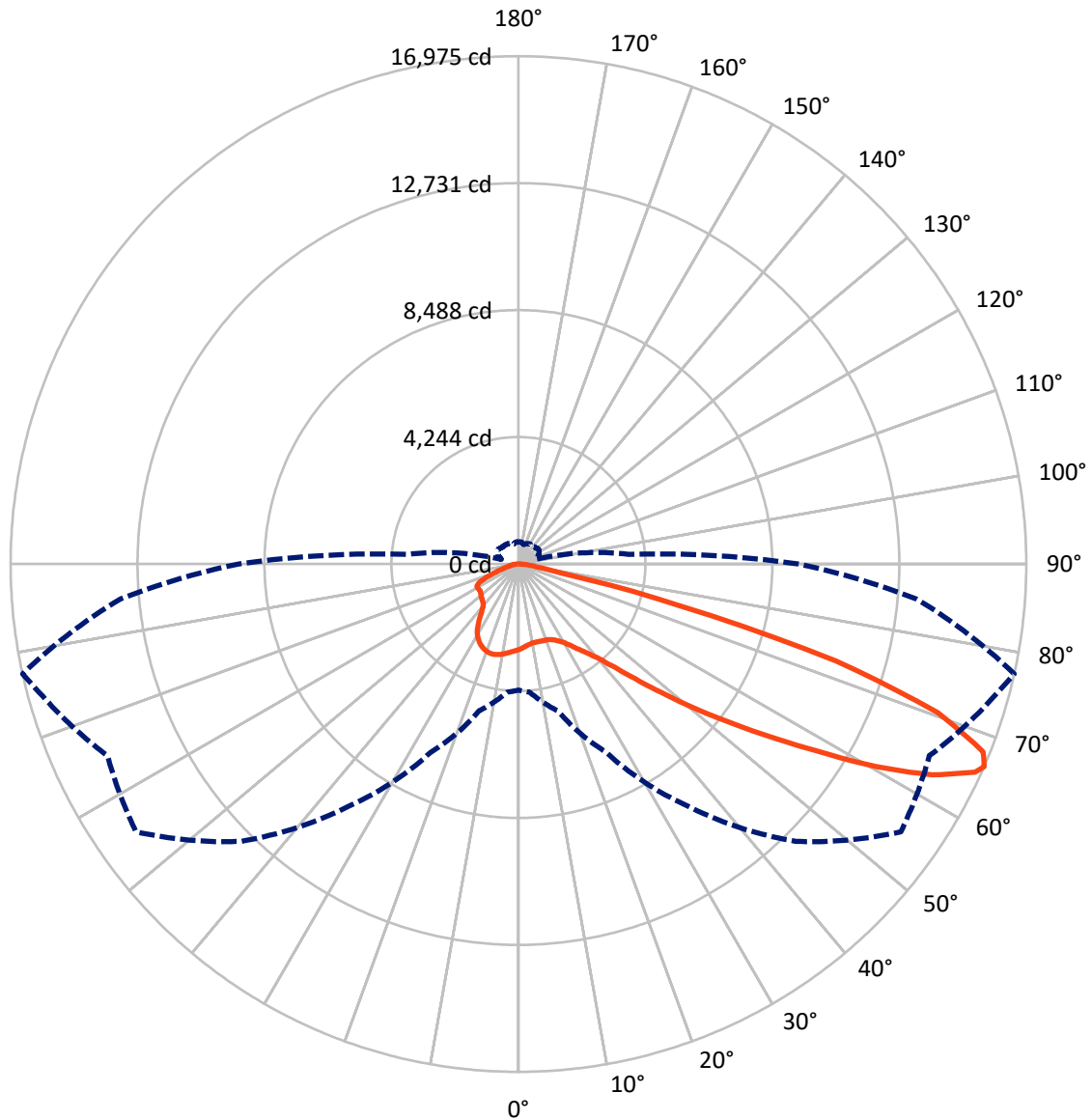


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194023

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194023

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3426.1	0.0	3426.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16627.9	0.0	16627.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	20054.0	0.0	20054.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	1.3
10°-20°	720.3	3.6
20°-30°	1229.3	6.1
30°-40°	1967.9	9.8
40°-50°	3040.2	15.2
50°-60°	4312.1	21.5
60°-70°	5768.4	28.8
70°-80°	2505.1	12.5
80°-90°	255.4	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°	20054.0	100.0
0°-180°	20054.0	100.0



REPORT NUMBER: P194023

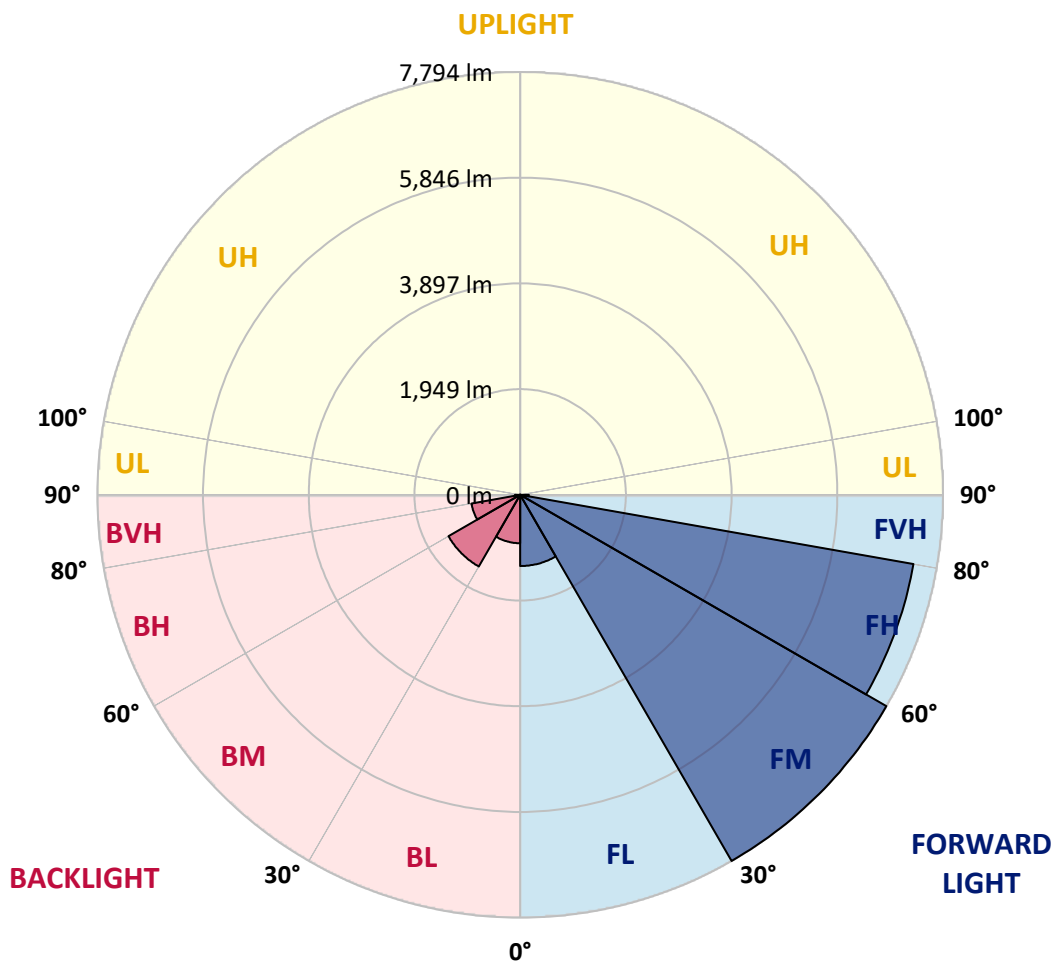
CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.6	6.5			
FM	(30°-60°)	7794.0	38.9			
FH	(60°-80°)	7361.0	36.7			G3/7500
FVH	(80°-90°)	160.2	0.8			G2/225
BL	(0°-30°)	892.3	4.4	B2/1000		
BM	(30°-60°)	1526.1	7.6	B2/2500		
BH	(60°-80°)	912.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	95.2	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





REPORT NUMBER: P194023

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8
2.5°	2528.0	2545.1	2559.3	2572.6	2599.1	2642.7	2692.9	2733.7	2792.4	2803.8	2835.0
5°	2295.9	2295.9	2307.3	2327.2	2363.2	2428.6	2496.8	2587.7	2715.7	2746.0	2829.4
7.5°	2183.1	2184.1	2190.7	2207.8	2239.0	2298.7	2373.6	2480.7	2654.1	2704.3	2846.4
10°	2224.8	2215.4	2201.1	2192.6	2197.4	2232.4	2303.5	2422.9	2616.2	2680.6	2884.3
12.5°	2457.9	2439.9	2390.7	2325.3	2262.7	2237.1	2278.8	2395.4	2600.1	2674.9	2934.5
15°	2838.8	2831.3	2739.3	2603.8	2452.2	2325.3	2296.8	2385.0	2602.0	2681.5	2994.2
17.5°	3316.4	3306.0	3184.7	2987.6	2740.3	2493.0	2360.3	2393.5	2608.6	2692.9	3052.0
20°	3798.7	3766.5	3635.7	3400.7	3083.3	2721.3	2465.5	2415.3	2617.1	2705.2	3112.7
22.5°	4158.8	4132.2	4014.7	3786.4	3420.6	2985.7	2606.7	2453.2	2644.6	2741.2	3187.5
25°	4475.2	4477.1	4360.6	4139.8	3761.7	3266.2	2788.6	2554.6	2714.7	2815.2	3289.9
27.5°	4866.6	4843.8	4734.9	4516.0	4099.1	3549.5	3008.4	2693.9	2818.9	2920.3	3424.4
30°	5334.7	5318.6	5192.5	4944.3	4473.4	3853.7	3259.5	2855.9	2953.5	3058.7	3600.7
32.5°	5885.2	5877.6	5746.8	5427.5	4905.4	4211.8	3554.2	3070.0	3154.4	3263.3	3853.7
35°	6531.4	6532.4	6377.9	5994.2	5378.3	4628.7	3888.7	3345.8	3398.8	3512.5	4155.0
37.5°	6929.4	6977.7	6919.9	6528.6	5913.6	5094.9	4322.7	3711.5	3677.4	3792.1	4478.1
40°	7014.7	7073.4	7256.3	7057.3	6512.5	5608.5	4707.4	4063.1	4020.4	4160.7	4894.1
42.5°	6895.3	6976.8	7363.4	7503.6	7148.3	6241.5	5224.8	4585.2	4531.2	4719.7	5411.4
45°	6824.2	6884.8	7332.1	7735.7	7699.7	6956.9	5883.3	5240.9	5221.0	5468.3	6008.4
47.5°	6701.0	6756.0	7186.2	7789.8	8023.8	7612.6	6674.5	6042.5	6081.3	6405.4	6682.1
50°	6767.4	6790.1	7023.2	7652.4	8117.6	8093.0	7558.6	6971.1	7103.7	7508.3	7444.8
52.5°	6757.9	6816.6	7004.2	7426.8	8129.9	8389.5	8429.3	8006.7	8286.3	8750.6	8291.0
55°	5463.5	5571.6	6781.6	7370.0	8173.5	8680.4	9204.4	9098.3	9619.5	10160.5	9246.1
57.5°	5217.2	5285.4	5956.3	7489.4	8404.7	9235.7	10066.7	10299.8	11171.5	11799.8	10409.7
60°	5168.8	5253.2	5947.7	7635.3	8873.7	10140.6	11344.9	11754.3	13060.0	13747.9	11759.0
62.5°	5018.2	5109.2	5891.8	7616.4	9539.9	11392.3	12981.3	13300.7	14850.8	15519.8	12887.5
65°	4540.6	4625.9	5436.1	7310.3	9989.0	12728.3	14918.1	14718.2	16264.6	16767.7	13450.4
66°	4213.7	4297.1	5076.9	6950.2	9884.8	13107.4	15604.1	15156.9	16581.1	16975.2	13340.5
67.5°	3615.8	3681.2	4379.5	6143.9	9330.5	13213.5	16181.2	15486.6	16614.2	16753.5	12712.2
70°	2284.5	2303.5	2846.4	4241.2	7063.0	11459.6	15302.8	14668.0	15244.1	14867.0	10657.0
72.5°	991.1	984.5	1366.4	2157.6	3998.6	7689.3	12378.7	12103.0	11958.0	11097.6	7460.0
75°	551.5	559.1	709.7	1001.6	1625.0	3776.9	8097.7	7749.0	6542.8	5582.9	3382.7
77.5°	442.5	452.9	588.4	710.7	729.6	1317.1	3789.2	3083.3	1856.2	1489.5	940.0
80°	349.6	368.6	513.6	553.4	491.8	542.9	1224.2	978.8	734.3	673.7	487.0
82.5°	276.7	289.9	440.6	418.8	344.0	365.8	586.5	571.4	477.6	434.9	281.4
85°	199.0	223.6	362.0	315.5	225.5	246.4	389.4	373.3	273.8	223.6	124.1
87.5°	81.5	106.1	255.8	209.4	126.0	114.7	194.2	182.9	129.8	94.8	61.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194023

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8	2857.8
2.5°	2854.9	2877.7	2907.1	2925.1	2934.5	2941.2	2951.6	2950.6	2953.5	2954.4	2958.2
5°	2873.9	2911.8	2954.4	2965.8	2965.8	2955.4	2945.0	2927.9	2921.3	2919.4	2921.3
7.5°	2923.2	2964.9	3001.8	2988.6	2960.1	2918.4	2864.4	2817.0	2791.5	2782.9	2781.0
10°	2985.7	3035.9	3051.1	3000.9	2917.5	2817.0	2710.0	2632.3	2587.7	2575.4	2571.6
12.5°	3061.5	3108.9	3088.0	2981.9	2827.5	2665.4	2517.6	2393.5	2300.6	2271.3	2269.4
15°	3144.9	3181.9	3108.9	2923.2	2692.9	2454.1	2190.7	1976.6	1861.0	1824.0	1821.2
17.5°	3222.6	3241.5	3096.6	2820.8	2494.9	2108.3	1758.6	1593.8	1554.0	1563.4	1565.3
20°	3288.9	3288.9	3054.9	2674.0	2183.1	1652.5	1431.7	1428.9	1457.3	1485.7	1491.4
22.5°	3361.9	3318.3	2981.9	2466.5	1741.6	1352.1	1319.9	1346.5	1378.7	1409.9	1414.7
25°	3451.9	3342.0	2880.5	2151.9	1369.2	1228.0	1240.3	1262.1	1278.2	1298.1	1301.0
27.5°	3552.3	3372.3	2746.9	1718.8	1188.2	1150.3	1159.8	1167.4	1165.5	1173.1	1175.0
30°	3672.7	3407.4	2564.1	1343.6	1113.4	1084.0	1066.9	1060.3	1060.3	1072.6	1077.4
32.5°	3833.8	3459.5	2301.6	1151.3	1077.4	1036.6	981.7	957.0	966.5	1008.2	1017.7
35°	4011.0	3515.4	1946.3	1085.9	1069.8	1014.8	929.5	884.1	885.0	923.9	936.2
37.5°	4204.2	3586.5	1556.8	1073.6	1086.8	1015.8	902.1	839.5	813.9	813.9	818.7
40°	4451.6	3659.4	1260.2	1082.1	1122.8	1027.1	887.8	804.5	732.5	734.3	738.1
42.5°	4773.7	3721.9	1101.0	1100.1	1166.4	1042.3	886.9	758.0	695.5	738.1	777.0
45°	5131.9	3753.2	1030.9	1116.2	1201.5	1051.8	871.7	750.5	700.2	827.2	901.1
47.5°	5544.1	3735.2	992.1	1121.9	1210.0	1051.8	854.7	768.5	733.4	958.0	1044.2
50°	5996.1	3683.1	954.2	1110.5	1207.2	1049.9	870.8	786.5	745.7	980.7	1040.4
52.5°	6527.6	3639.5	914.4	1085.9	1187.3	1039.5	889.7	778.9	706.9	891.6	933.3
55°	7134.1	3651.8	869.8	1050.8	1156.0	1019.6	883.1	748.6	666.1	785.5	811.1
57.5°	7909.1	3798.7	816.8	1006.3	1113.4	986.4	859.4	734.3	653.8	712.6	727.7
60°	8774.3	4054.5	750.5	961.8	1060.3	933.3	841.4	741.0	659.5	706.9	714.4
62.5°	9409.1	4203.3	693.6	896.4	988.3	874.6	818.7	749.5	674.7	726.8	724.9
65°	9581.6	3958.8	622.5	800.7	890.7	813.0	790.3	759.0	681.3	742.9	734.3
66°	9339.9	3695.4	591.3	756.1	841.4	782.7	776.0	758.0	678.4	744.8	730.6
67.5°	8753.4	3155.3	537.3	690.8	762.8	737.2	753.3	749.5	670.9	742.9	723.0
70°	7138.8	2152.8	459.6	575.2	634.9	649.1	709.7	719.2	646.2	709.7	666.1
72.5°	4987.9	1311.4	406.5	446.3	513.6	553.4	650.0	677.5	613.1	619.7	578.0
75°	2410.5	696.4	368.6	345.9	398.9	462.4	578.0	620.6	560.9	518.3	503.1
77.5°	751.4	425.4	312.7	278.6	312.7	373.3	483.2	543.9	499.4	434.0	428.3
80°	403.7	312.7	240.7	223.6	247.3	292.8	380.0	453.9	429.2	389.4	347.7
82.5°	266.3	202.8	178.1	173.4	188.6	223.6	282.4	376.2	376.2	333.5	242.6
85°	137.4	124.1	122.2	122.2	131.7	148.8	192.4	289.9	308.9	176.2	145.9
87.5°	68.2	71.1	66.3	69.2	73.9	73.0	91.9	145.9	174.3	107.1	89.1
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)