

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: P194104

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23307 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

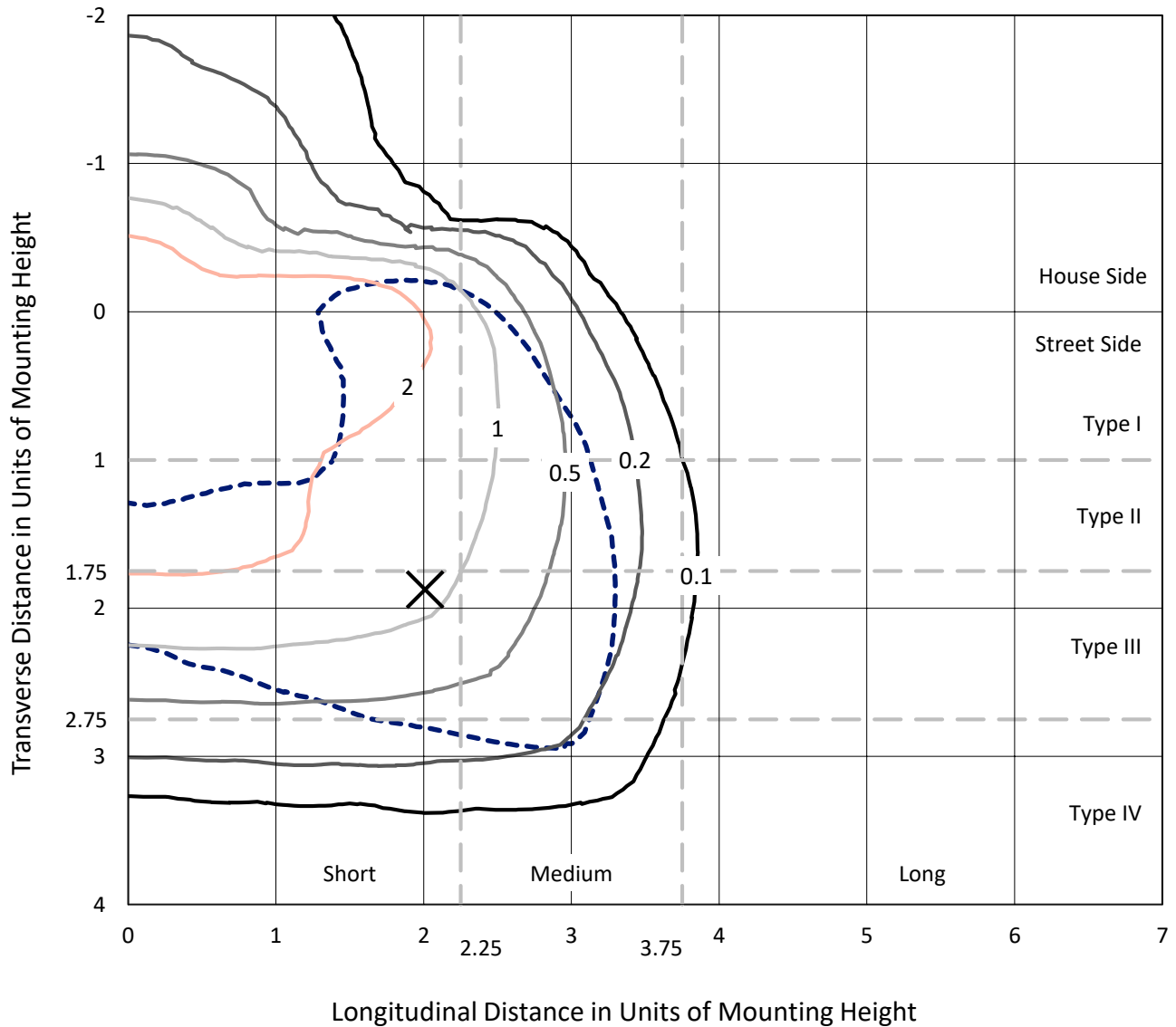


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

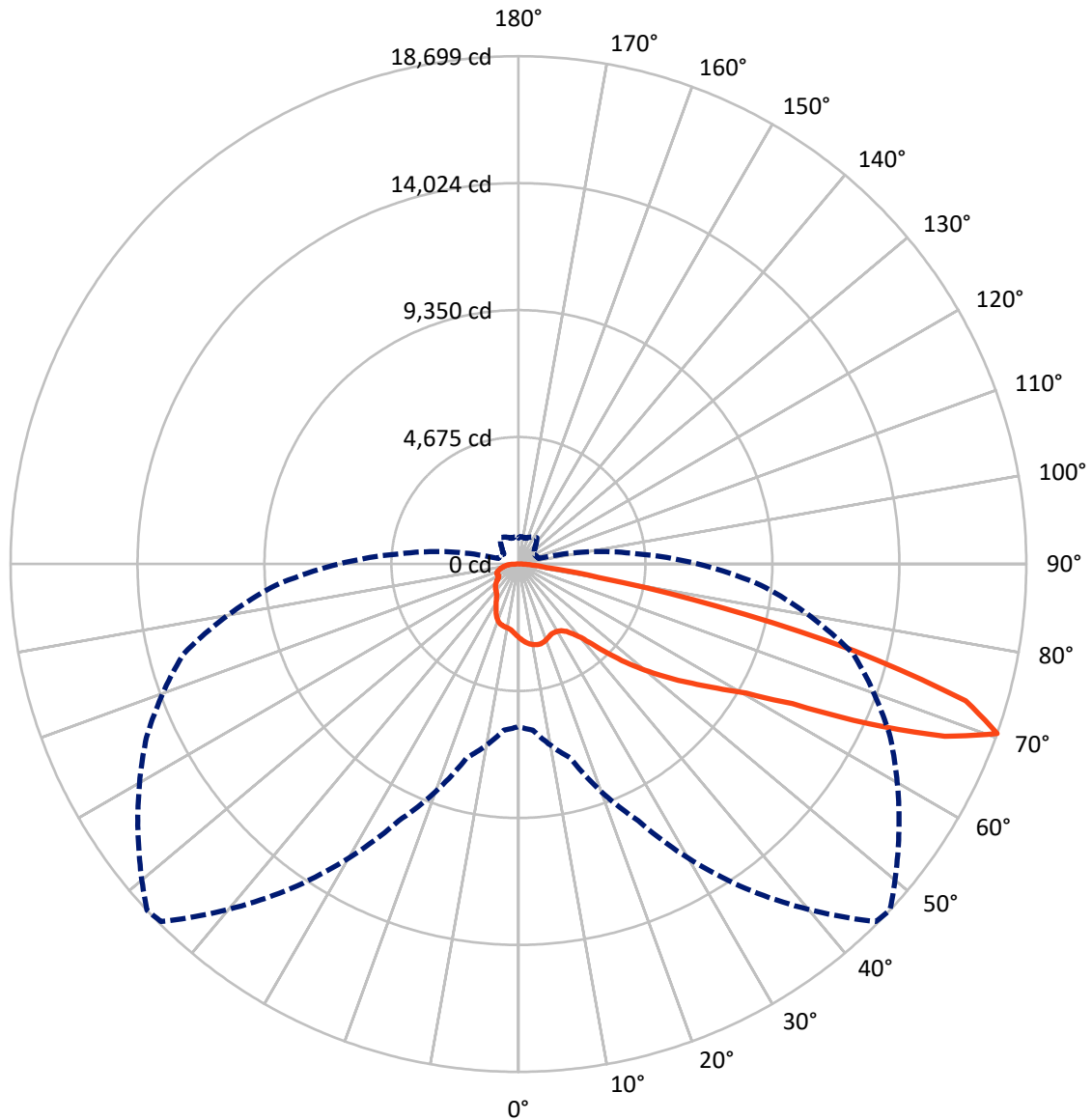


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4862.3	0.0	4862.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	18444.7	0.0	18444.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	23307.0	0.0	23307.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.1
10°-20°	760.2	3.3
20°-30°	1122.6	4.8
30°-40°	1631.7	7.0
40°-50°	2936.5	12.6
50°-60°	5087.1	21.8
60°-70°	7260.8	31.2
70°-80°	3727.3	16.0
80°-90°	521.8	2.2
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°	23307.0	100.0
0°-180°	23307.0	100.0



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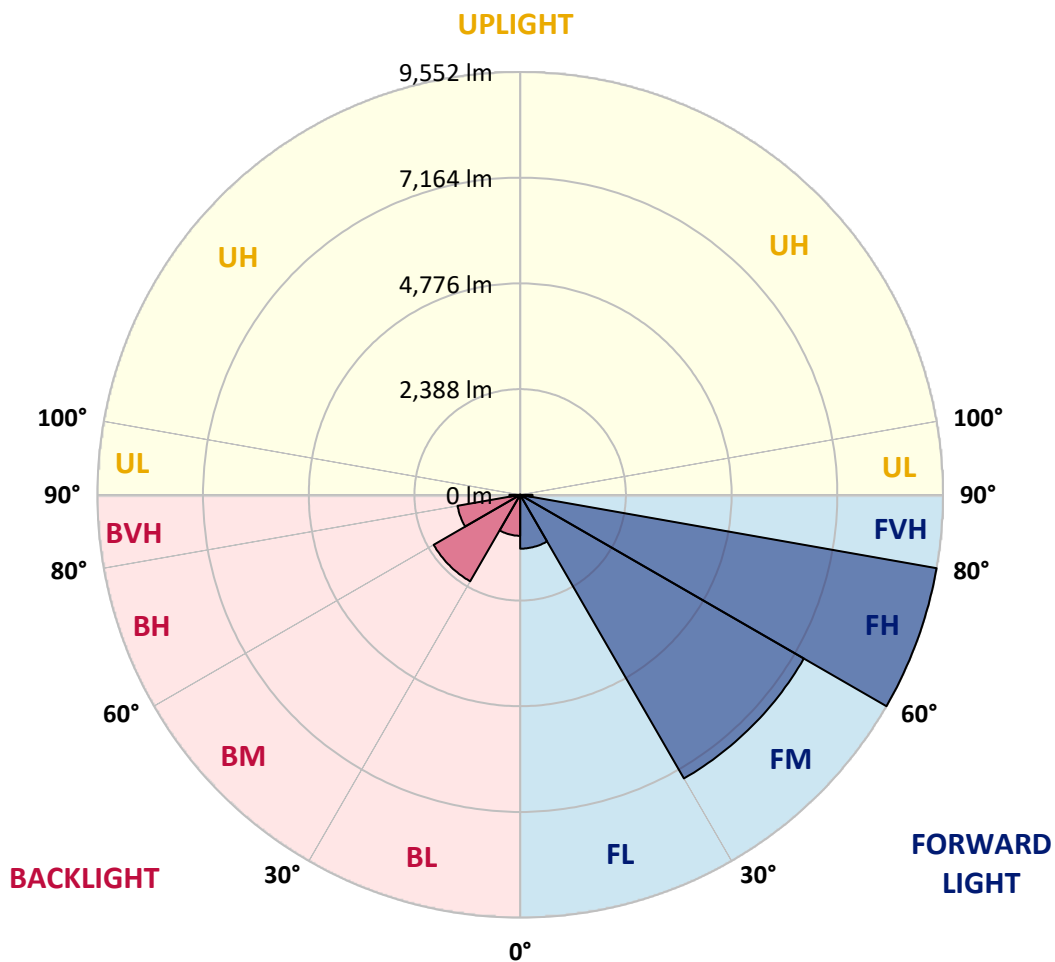
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.1	5.2			
FM	(30°-60°)	7398.3	31.7			
FH	(60°-80°)	9551.8	41.0			G4/12000
FVH	(80°-90°)	278.5	1.2			G3/500
BL	(0°-30°)	925.8	4.0	B2/1000		
BM	(30°-60°)	2256.9	9.7	B2/2500		
BH	(60°-80°)	1436.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	243.4	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3
2.5°	2863.1	2857.4	2855.1	2850.6	2844.9	2816.6	2810.9	2790.5	2762.2	2732.7	2702.1
5°	3051.3	3050.2	3037.7	3015.0	2978.7	2916.4	2901.6	2851.7	2784.8	2720.2	2655.6
7.5°	3216.9	3206.7	3182.8	3137.5	3074.0	2988.9	2968.5	2899.4	2807.5	2719.1	2631.8
10°	3338.2	3332.5	3280.4	3218.0	3135.2	3041.1	3017.3	2940.2	2839.3	2727.0	2618.2
12.5°	3407.4	3396.0	3335.9	3261.1	3162.4	3070.6	3046.8	2968.5	2855.1	2727.0	2598.9
15°	3402.8	3394.9	3334.8	3253.1	3153.4	3072.9	3051.3	2973.1	2851.7	2715.7	2573.9
17.5°	3312.1	3315.5	3264.5	3184.0	3102.3	3041.1	3021.8	2949.3	2829.1	2693.0	2544.5
20°	3153.4	3169.2	3135.2	3063.8	3018.4	2976.5	2964.0	2902.8	2793.9	2660.1	2512.7
22.5°	2994.6	3009.4	2995.7	2935.7	2928.8	2903.9	2897.1	2852.9	2763.3	2639.7	2493.4
25°	2877.8	2891.4	2889.2	2837.0	2857.4	2856.3	2850.6	2829.1	2756.5	2639.7	2496.8
27.5°	2846.1	2850.6	2846.1	2798.5	2826.8	2849.5	2844.9	2841.5	2776.9	2672.6	2539.9
30°	2954.9	2948.1	2913.0	2816.6	2842.7	2874.4	2869.9	2872.2	2838.1	2758.8	2636.3
32.5°	3389.2	3358.6	3247.5	2976.5	2907.3	2924.3	2926.6	2964.0	2969.7	2891.4	2786.0
35°	4038.9	4004.9	3860.9	3405.1	3108.0	3049.0	3049.0	3105.7	3139.8	3081.9	3018.4
37.5°	4727.2	4689.8	4612.7	3999.2	3529.8	3265.6	3259.9	3299.6	3348.4	3362.0	3377.9
40°	5509.6	5469.9	5491.4	4666.0	4118.3	3640.9	3560.4	3532.1	3663.6	3750.9	3877.9
42.5°	6365.7	6347.5	6355.5	5408.7	4788.4	4202.2	4087.7	3941.4	4100.2	4255.5	4522.0
45°	7158.3	7174.1	7166.2	6203.5	5534.5	4887.1	4765.8	4482.3	4637.6	4904.1	5338.4
47.5°	7852.2	7786.5	7888.5	7072.1	6370.2	5653.6	5503.9	5124.1	5281.7	5610.5	6345.3
50°	8694.7	8685.6	8536.0	8230.9	7380.5	6423.5	6227.3	5787.4	6032.3	6489.3	7614.1
52.5°	9580.3	9415.9	9278.7	9132.4	8452.0	7212.7	6972.3	6448.5	6914.5	7489.4	9160.7
55°	9761.7	9688.0	9858.1	10104.1	9485.0	8032.5	7752.4	7277.3	7907.8	8632.3	10944.3
57.5°	10149.5	10148.4	10499.9	10938.7	10548.6	8902.2	8619.9	8278.6	9024.7	9942.0	12837.9
60°	10411.4	10485.1	11138.2	11989.8	11592.9	9906.8	9647.2	9434.0	10294.6	11405.8	14602.3
62.5°	10548.6	10648.4	11539.6	12416.1	13069.3	11579.3	11319.7	11012.4	11975.1	13011.4	15634.1
65°	9978.3	10174.4	11477.3	12784.7	14361.9	14290.5	14173.7	13633.9	14076.2	14280.3	15261.1
67.5°	8399.9	8600.6	10117.7	12441.1	15284.9	16905.2	16930.2	16008.3	15368.8	14389.1	12831.1
70°	5984.7	6142.3	7397.5	10430.7	14581.9	18614.0	18699.0	17102.5	15111.4	12760.8	8964.6
72.5°	2841.5	2937.9	4126.2	6788.6	11571.4	17054.9	17219.3	15705.6	12849.3	9447.6	4890.5
75°	1044.3	1073.8	1394.7	2888.0	6711.5	12577.2	12771.0	11258.4	8517.8	4703.4	1863.0
77.5°	625.9	645.2	782.4	1218.9	2639.7	7188.9	7475.8	6123.0	3722.6	1750.7	916.2
80°	437.7	451.3	561.3	758.6	1247.3	2739.5	2994.6	2499.1	1483.1	1107.8	666.7
82.5°	295.9	302.7	394.6	512.5	828.9	978.6	1055.7	1111.2	1000.1	824.3	422.9
85°	193.9	200.7	267.6	337.9	527.3	505.7	517.1	654.3	730.2	560.1	234.7
87.5°	111.1	115.7	161.0	180.3	258.5	214.3	216.6	344.7	467.2	377.6	142.9
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°	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3	2704.3
2.5°	2694.1	2679.4	2646.5	2626.1	2606.8	2602.3	2594.3	2593.2	2592.1	2592.1	2588.7
5°	2634.0	2609.1	2558.1	2529.7	2505.9	2503.6	2502.5	2508.2	2510.4	2512.7	2509.3
7.5°	2595.5	2561.5	2498.0	2457.1	2428.8	2422.0	2433.3	2459.4	2476.4	2483.2	2479.8
10°	2571.7	2529.7	2456.0	2411.8	2388.0	2384.6	2399.3	2429.9	2465.1	2478.7	2477.6
12.5°	2544.5	2496.8	2418.6	2372.1	2358.5	2365.3	2384.6	2412.9	2449.2	2470.8	2471.9
15°	2517.2	2461.7	2381.2	2340.4	2334.7	2343.8	2361.9	2383.4	2411.8	2433.3	2435.6
17.5°	2484.4	2426.5	2346.0	2304.1	2299.5	2304.1	2305.2	2316.5	2334.7	2355.1	2360.8
20°	2449.2	2390.2	2306.3	2264.4	2244.0	2225.8	2205.4	2207.7	2213.4	2233.8	2238.3
22.5°	2424.3	2365.3	2275.7	2217.9	2163.5	2109.0	2068.2	2062.6	2064.8	2081.8	2087.5
25°	2426.5	2364.2	2267.8	2168.0	2048.9	1961.6	1907.2	1898.1	1897.0	1909.5	1917.4
27.5°	2470.8	2408.4	2297.3	2117.0	1924.2	1795.0	1737.1	1730.3	1721.3	1724.7	1733.7
30°	2569.4	2511.6	2368.7	2064.8	1789.3	1631.7	1571.6	1564.8	1552.3	1546.6	1553.4
32.5°	2730.4	2682.8	2473.0	2014.9	1654.4	1492.2	1431.0	1416.2	1408.3	1401.5	1407.2
35°	2998.0	2977.6	2612.5	1960.5	1535.3	1384.5	1328.9	1306.2	1294.9	1307.4	1316.5
37.5°	3417.6	3428.9	2795.0	1875.5	1443.4	1313.0	1266.6	1240.5	1223.5	1233.7	1243.9
40°	4011.7	4019.7	2996.9	1755.3	1364.1	1271.1	1221.2	1197.4	1173.6	1155.4	1154.3
42.5°	4791.8	4711.3	3195.3	1624.9	1272.2	1245.0	1189.5	1160.0	1123.7	1073.8	1063.6
45°	5717.1	5434.8	3346.1	1475.2	1169.0	1213.3	1154.3	1113.5	1056.8	1002.4	996.7
47.5°	6783.0	6211.5	3419.8	1319.9	1072.7	1166.8	1111.2	1046.6	975.1	947.9	944.5
50°	8084.7	7133.3	3455.0	1169.0	988.8	1105.5	1048.9	972.9	912.8	907.1	903.7
52.5°	9566.7	8242.3	3466.3	1045.5	919.6	1026.2	997.8	924.1	876.5	881.0	881.0
55°	11117.8	9387.5	3312.1	955.9	856.1	944.5	963.8	904.8	865.2	883.3	890.1
57.5°	12542.0	10402.3	2826.8	886.7	796.0	882.2	951.3	923.0	895.8	969.5	974.0
60°	13635.1	11002.2	2111.3	824.3	751.8	860.6	984.2	992.2	999.0	1174.7	1198.5
62.5°	13864.1	10802.6	1451.4	775.6	731.4	878.8	1044.3	1045.5	1037.5	1160.0	1174.7
65°	12813.0	9540.6	1055.7	748.4	714.4	911.7	1095.3	1071.5	1019.4	1112.4	1085.1
67.5°	10175.6	7187.8	878.8	728.0	689.4	909.4	1149.8	1095.3	1009.2	1089.7	1045.5
70°	6604.9	4346.2	782.4	711.0	659.9	866.3	1181.5	1093.1	979.7	1013.7	961.5
72.5°	3222.5	1943.5	717.8	686.0	629.3	806.2	1180.4	1072.7	949.1	946.8	918.5
75°	1260.9	890.1	658.8	648.6	577.2	738.2	1148.6	1043.2	912.8	876.5	866.3
77.5°	738.2	635.0	584.0	593.0	514.8	670.1	1102.1	992.2	862.9	819.8	808.5
80°	537.5	475.1	497.8	512.5	440.0	602.1	1039.8	929.8	807.3	828.9	813.0
82.5°	344.7	306.2	403.7	418.4	366.2	532.9	971.7	864.0	729.1	662.2	646.3
85°	175.8	193.9	300.5	318.6	282.3	437.7	889.0	776.7	640.7	551.1	560.1
87.5°	98.6	132.7	191.6	214.3	199.6	336.8	721.2	640.7	522.7	425.2	374.2
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)