

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: P194113

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194113
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-05-LED-E1-T4W-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24107 lumens
Efficiency: N/A
Efficacy: 86.4 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

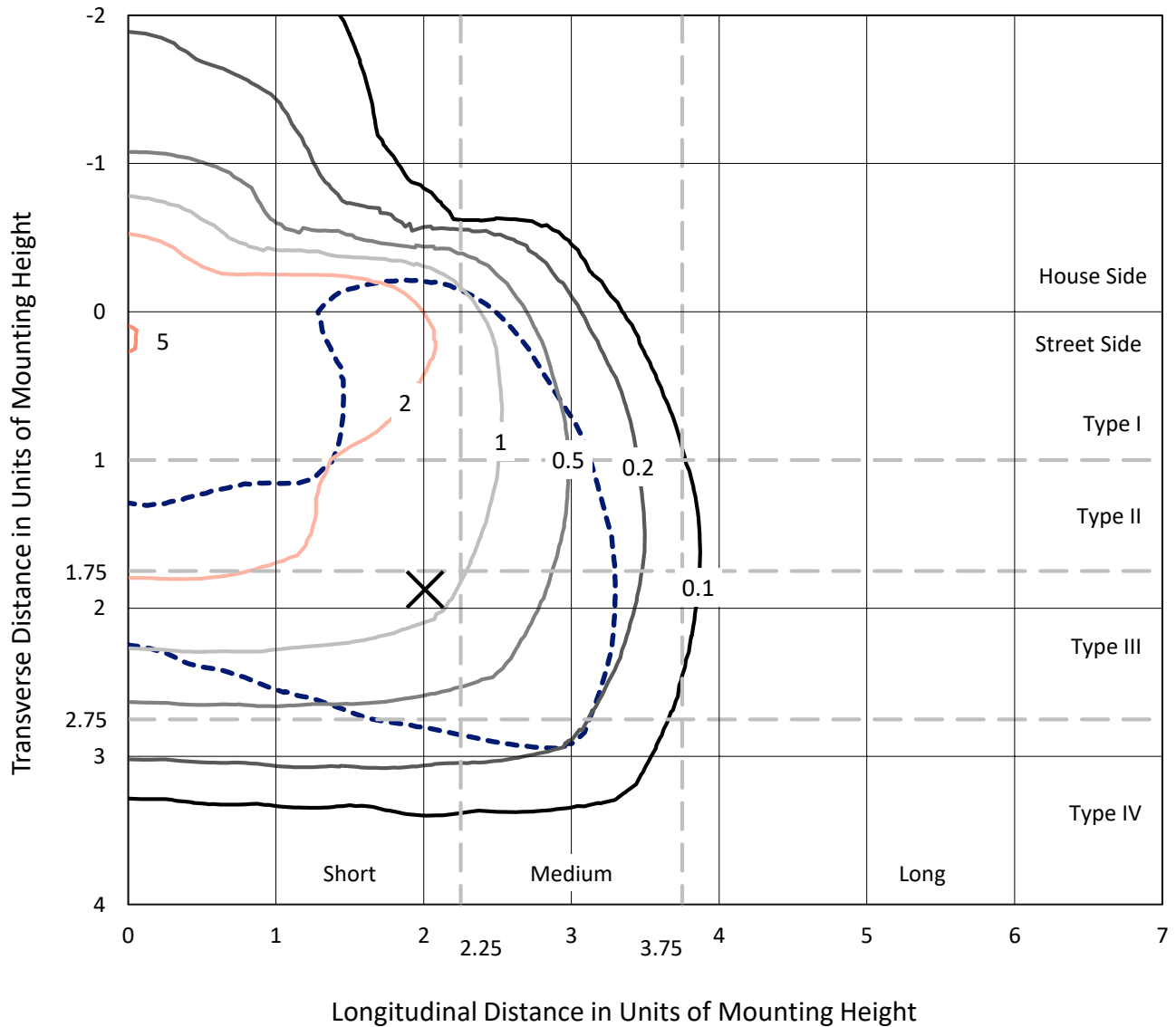
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

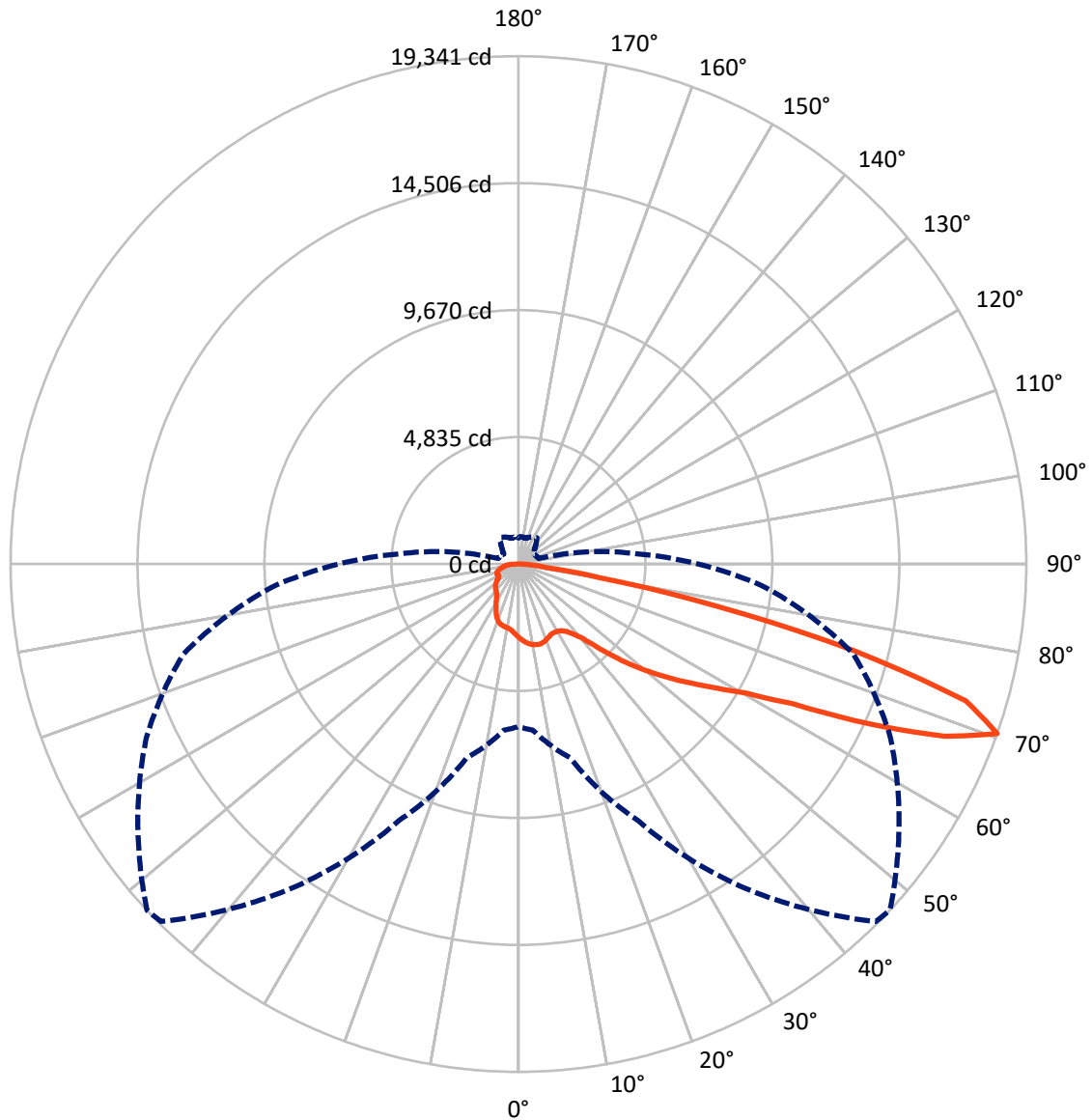
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5029.2	0.0	5029.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	19077.8	0.0	19077.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	24107.0	0.0	24107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.1
10°-20°	786.3	3.3
20°-30°	1161.1	4.8
30°-40°	1687.7	7.0
40°-50°	3037.2	12.6
50°-60°	5261.7	21.8
60°-70°	7510.0	31.2
70°-80°	3855.2	16.0
80°-90°	539.7	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°	24107.0	100.0
0°-180°	24107.0	100.0

Coefficient of Utilization



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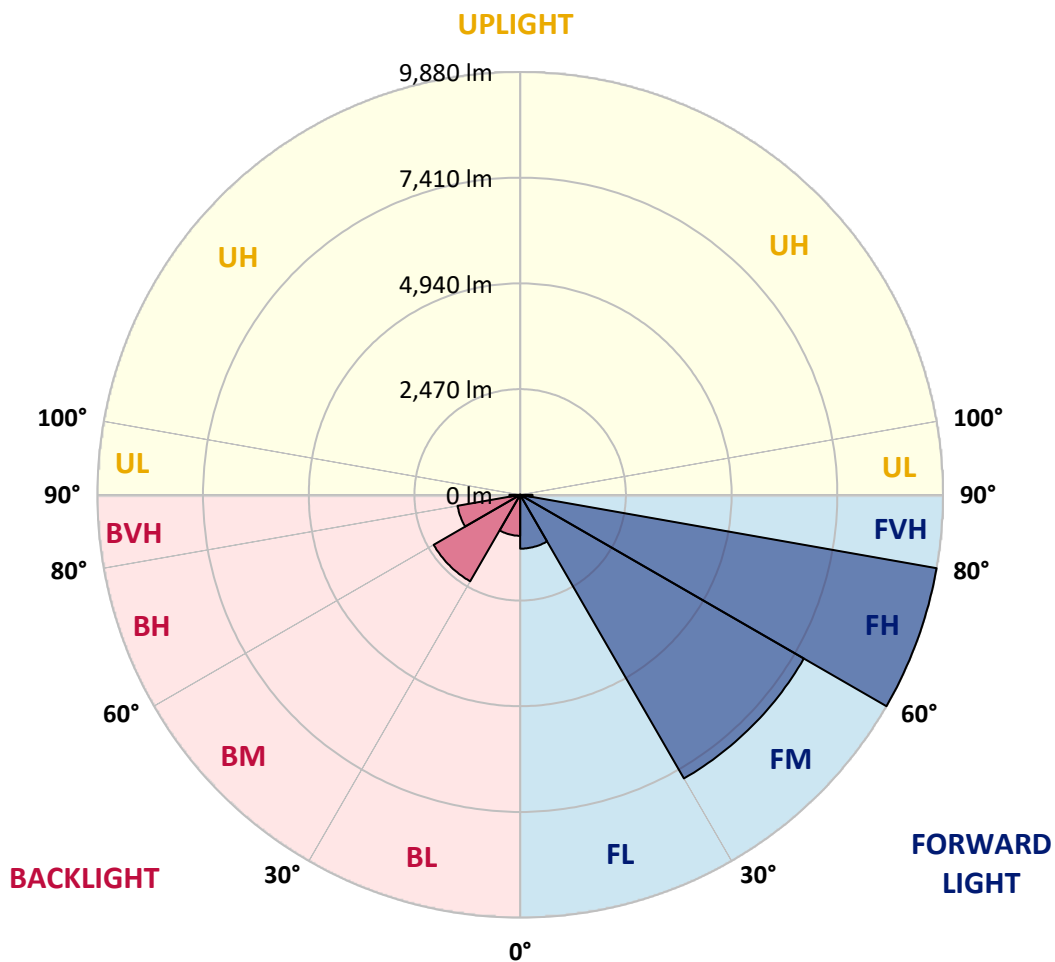
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.8	5.2			
FM	(30°-60°)	7652.2	31.7			
FH	(60°-80°)	9879.7	41.0			G4/12000
FVH	(80°-90°)	288.0	1.2			G3/500
BL	(0°-30°)	957.6	4.0	B2/1000		
BM	(30°-60°)	2334.4	9.7	B2/2500		
BH	(60°-80°)	1485.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	251.7	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°	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2
2.5°	2961.4	2955.5	2953.1	2948.5	2942.6	2913.3	2907.4	2886.3	2857.0	2826.5	2794.8
5°	3156.0	3154.9	3142.0	3118.5	3081.0	3016.5	3001.2	2949.6	2880.4	2813.6	2746.7
7.5°	3327.3	3316.7	3292.1	3245.2	3179.5	3091.5	3070.4	2998.9	2903.9	2812.4	2722.1
10°	3452.8	3446.9	3393.0	3328.4	3242.8	3145.5	3120.9	3041.1	2936.7	2820.6	2708.0
12.5°	3524.3	3512.6	3450.4	3373.0	3271.0	3176.0	3151.4	3070.4	2953.1	2820.6	2688.1
15°	3519.6	3511.4	3449.2	3364.8	3261.6	3178.3	3156.0	3075.1	2949.6	2808.9	2662.3
17.5°	3425.8	3429.3	3376.5	3293.3	3208.8	3145.5	3125.6	3050.5	2926.2	2785.4	2631.8
20°	3261.6	3278.0	3242.8	3168.9	3122.0	3078.6	3065.7	3002.4	2889.8	2751.4	2599.0
22.5°	3097.4	3112.6	3098.6	3036.4	3029.4	3003.6	2996.5	2950.8	2858.1	2730.3	2579.0
25°	2976.6	2990.7	2988.3	2934.4	2955.5	2954.3	2948.5	2926.2	2851.1	2730.3	2582.5
27.5°	2943.8	2948.5	2943.8	2894.5	2923.8	2947.3	2942.6	2939.1	2872.2	2764.3	2627.1
30°	3056.4	3049.3	3013.0	2913.3	2940.2	2973.1	2968.4	2970.7	2935.6	2853.5	2726.8
32.5°	3505.5	3473.9	3358.9	3078.6	3007.1	3024.7	3027.0	3065.7	3071.6	2990.7	2881.6
35°	4177.6	4142.4	3993.4	3522.0	3214.7	3153.7	3153.7	3212.3	3247.5	3187.7	3122.0
37.5°	4889.5	4850.8	4771.0	4136.5	3651.0	3377.7	3371.8	3412.9	3463.3	3477.4	3493.8
40°	5698.7	5657.7	5679.9	4826.1	4259.7	3765.9	3682.6	3653.3	3789.4	3879.7	4011.0
42.5°	6584.2	6565.4	6573.6	5594.3	4952.8	4346.5	4228.0	4076.7	4240.9	4401.6	4677.2
45°	7404.0	7420.4	7412.2	6416.5	5724.5	5054.8	4929.3	4636.1	4796.8	5072.4	5521.6
47.5°	8121.7	8053.7	8159.3	7314.8	6588.9	5847.7	5692.8	5299.9	5463.0	5803.1	6563.1
50°	8993.1	8983.8	8828.9	8513.5	7633.8	6644.0	6441.1	5986.0	6239.4	6712.0	7875.4
52.5°	9909.1	9739.1	9597.1	9445.8	8742.2	7460.3	7211.6	6669.8	7151.8	7746.4	9475.2
55°	10096.8	10020.5	10196.4	10450.9	9810.6	8308.2	8018.5	7527.1	8179.2	8928.6	11320.0
57.5°	10497.9	10496.7	10860.3	11314.1	10910.7	9207.8	8915.7	8562.7	9334.4	10283.2	13278.6
60°	10768.8	10845.0	11520.6	12401.3	11990.9	10246.9	9978.3	9757.8	10648.0	11797.3	15103.5
62.5°	10910.7	11013.9	11935.7	12842.3	13517.9	11976.8	11708.2	11390.4	12386.1	13458.0	16170.8
65°	10320.8	10523.7	11871.2	13223.5	14854.9	14781.0	14660.2	14101.9	14559.3	14770.4	15784.9
67.5°	8688.2	8895.8	10465.0	12868.1	15809.5	17485.5	17511.3	16557.8	15896.3	14883.0	13271.6
70°	6190.1	6353.1	7651.4	10788.7	15082.4	19252.9	19340.9	17689.6	15630.1	13198.9	9272.3
72.5°	2939.1	3038.8	4267.9	7021.6	11968.6	17640.3	17810.4	16244.7	13290.3	9771.9	5058.3
75°	1080.2	1110.7	1442.6	2987.2	6941.9	13008.9	13209.4	11644.9	8810.2	4864.8	1926.9
77.5°	647.4	667.3	809.2	1260.8	2730.3	7435.6	7732.4	6333.2	3850.3	1810.8	947.6
80°	452.7	466.8	580.5	784.6	1290.1	2833.5	3097.4	2584.9	1534.0	1145.8	689.6
82.5°	306.1	313.1	408.1	530.1	857.3	1012.1	1091.9	1149.4	1034.4	852.6	437.5
85°	200.6	207.6	276.8	349.5	545.4	523.1	534.8	676.7	755.3	579.4	242.8
87.5°	114.9	119.6	166.5	186.5	267.4	221.7	224.0	356.5	483.2	390.5	147.8
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°	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2
2.5°	2786.6	2771.4	2737.3	2716.2	2696.3	2691.6	2683.4	2682.2	2681.1	2681.1	2677.5
5°	2724.4	2698.6	2645.9	2616.5	2591.9	2589.6	2588.4	2594.3	2596.6	2599.0	2595.4
7.5°	2684.6	2649.4	2583.7	2541.5	2512.2	2505.1	2516.9	2543.8	2561.4	2568.5	2564.9
10°	2659.9	2616.5	2540.3	2494.6	2469.9	2466.4	2481.7	2513.3	2549.7	2563.8	2562.6
12.5°	2631.8	2582.5	2501.6	2453.5	2439.5	2446.5	2466.4	2495.7	2533.3	2555.6	2556.7
15°	2603.6	2546.2	2462.9	2420.7	2414.8	2424.2	2443.0	2465.3	2494.6	2516.9	2519.2
17.5°	2569.6	2509.8	2426.6	2383.2	2378.5	2383.2	2384.3	2396.1	2414.8	2435.9	2441.8
20°	2533.3	2472.3	2385.5	2342.1	2321.0	2302.2	2281.1	2283.5	2289.3	2310.4	2315.1
22.5°	2507.5	2446.5	2353.8	2294.0	2237.7	2181.4	2139.2	2133.3	2135.7	2153.3	2159.2
25°	2509.8	2445.3	2345.6	2242.4	2119.3	2029.0	1972.7	1963.3	1962.1	1975.0	1983.2
27.5°	2555.6	2491.1	2376.1	2189.6	1990.3	1856.6	1796.8	1789.7	1780.3	1783.9	1793.2
30°	2657.6	2597.8	2450.0	2135.7	1850.7	1687.7	1625.5	1618.5	1605.6	1599.7	1606.8
32.5°	2824.1	2774.9	2557.9	2084.1	1711.1	1543.4	1480.1	1464.8	1456.6	1449.6	1455.5
35°	3100.9	3079.8	2702.2	2027.8	1588.0	1432.0	1374.5	1351.1	1339.4	1352.3	1361.6
37.5°	3534.9	3546.6	2891.0	1939.8	1493.0	1358.1	1310.0	1283.1	1265.5	1276.0	1286.6
40°	4149.4	4157.6	3099.7	1815.5	1410.9	1314.7	1263.1	1238.5	1213.9	1195.1	1193.9
42.5°	4956.3	4873.0	3305.0	1680.6	1315.9	1287.8	1230.3	1199.8	1162.3	1110.7	1100.1
45°	5913.3	5621.3	3461.0	1525.8	1209.2	1254.9	1193.9	1151.7	1093.1	1036.8	1030.9
47.5°	7015.8	6424.7	3537.2	1365.2	1109.5	1206.8	1149.4	1082.5	1008.6	980.5	977.0
50°	8362.2	7378.2	3573.6	1209.2	1022.7	1143.5	1084.9	1006.3	944.1	938.3	934.7
52.5°	9895.0	8525.2	3585.3	1081.3	951.2	1061.4	1032.1	955.8	906.6	911.3	911.3
55°	11499.4	9709.7	3425.8	988.7	885.5	977.0	996.9	935.9	894.9	913.6	920.7
57.5°	12972.5	10759.4	2923.8	917.1	823.3	912.4	984.0	954.7	926.5	1002.8	1007.4
60°	14103.1	11379.8	2183.8	852.6	777.6	890.2	1018.0	1026.2	1033.2	1215.0	1239.7
62.5°	14340.0	11173.4	1501.2	802.2	756.5	908.9	1080.2	1081.3	1073.1	1199.8	1215.0
65°	13252.8	9868.1	1091.9	774.1	738.9	942.9	1132.9	1108.3	1054.4	1150.5	1122.4
67.5°	10524.8	7434.5	908.9	752.9	713.1	940.6	1189.2	1132.9	1043.8	1127.1	1081.3
70°	6831.6	4495.4	809.2	735.4	682.6	896.0	1222.1	1130.6	1013.3	1048.5	994.5
72.5°	3333.1	2010.2	742.4	709.6	650.9	833.9	1220.9	1109.5	981.6	979.3	950.0
75°	1304.2	920.7	681.4	670.8	597.0	763.5	1188.1	1079.0	944.1	906.6	896.0
77.5°	763.5	656.8	604.0	613.4	532.5	693.1	1140.0	1026.2	892.5	847.9	836.2
80°	555.9	491.4	514.9	530.1	455.1	622.8	1075.5	961.7	835.0	857.3	840.9
82.5°	356.5	316.7	417.5	432.8	378.8	551.2	1005.1	893.7	754.1	684.9	668.5
85°	181.8	200.6	310.8	329.6	292.0	452.7	919.5	803.4	662.6	570.0	579.4
87.5°	102.0	137.2	198.2	221.7	206.4	348.3	745.9	662.6	540.7	439.8	387.0
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)