

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: P192331

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18282 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

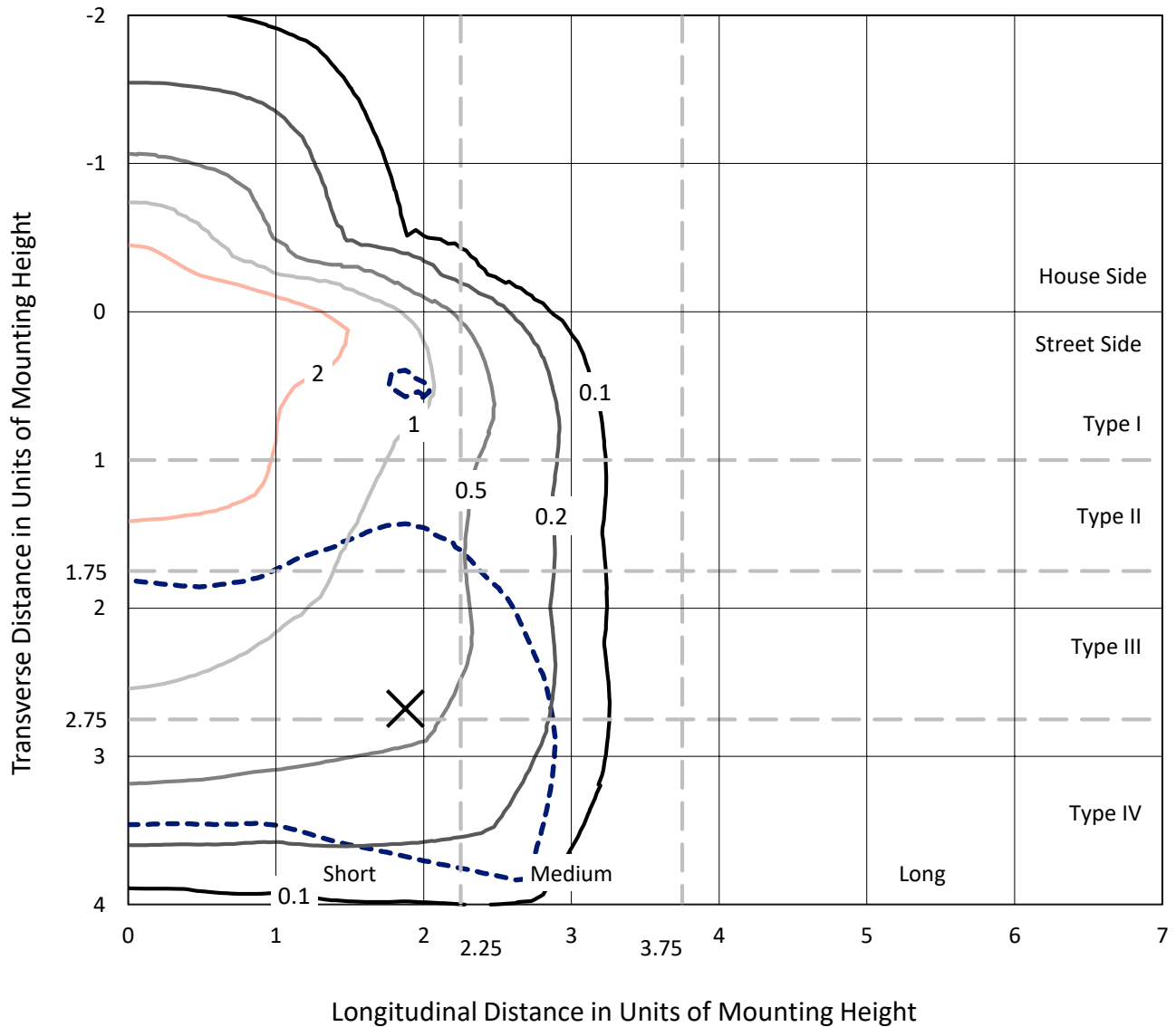
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

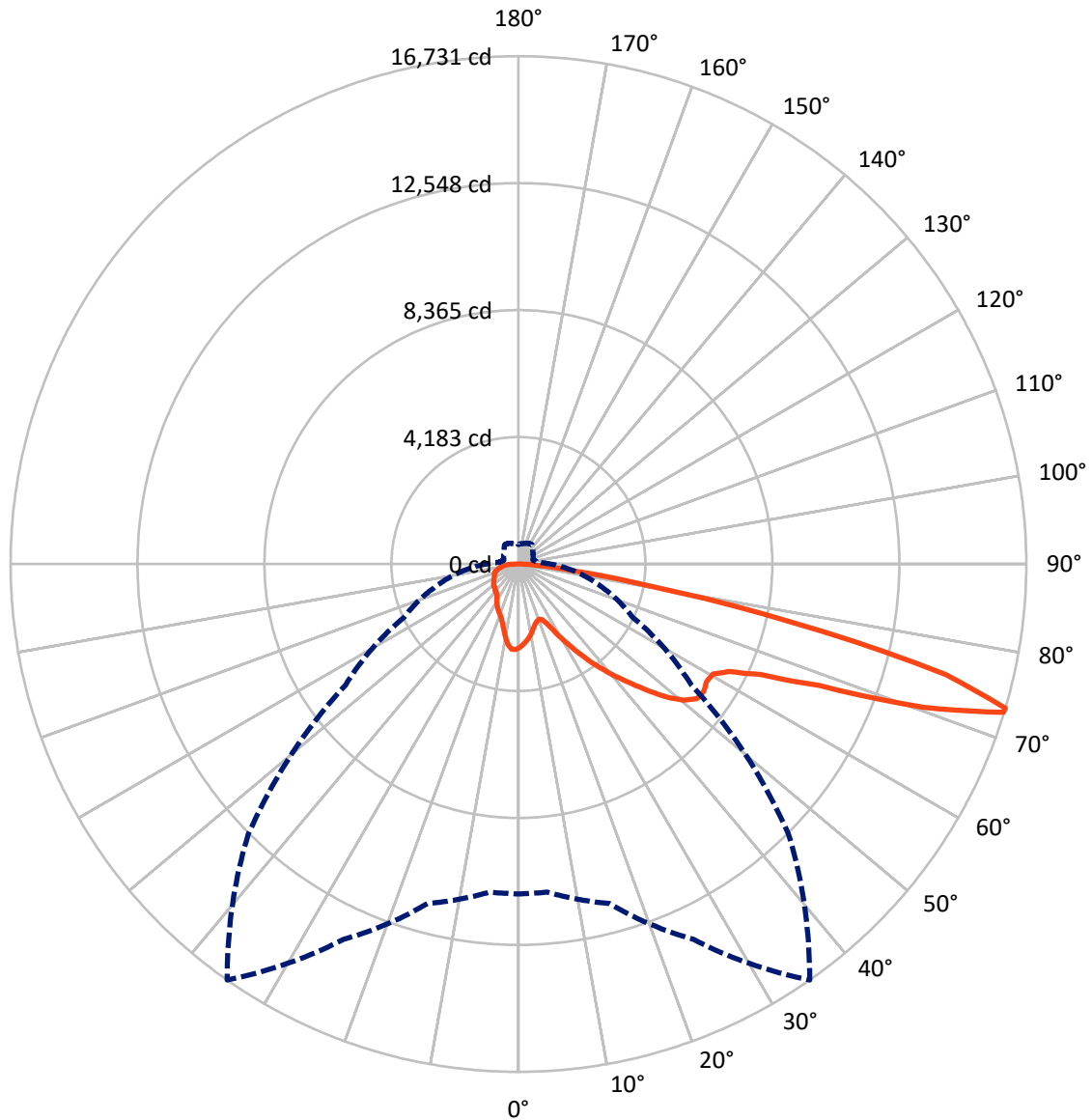
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3486.9	0.0	3486.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	14795.1	0.0	14795.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	18282.0	0.0	18282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	1.4
10°-20°	623.5	3.4
20°-30°	1007.9	5.5
30°-40°	1690.1	9.2
40°-50°	2605.2	14.3
50°-60°	3495.2	19.1
60°-70°	4656.3	25.5
70°-80°	3551.4	19.4
80°-90°	402.5	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°	18282.0	100.0
0°-180°	18282.0	100.0

Coefficient of Utilization



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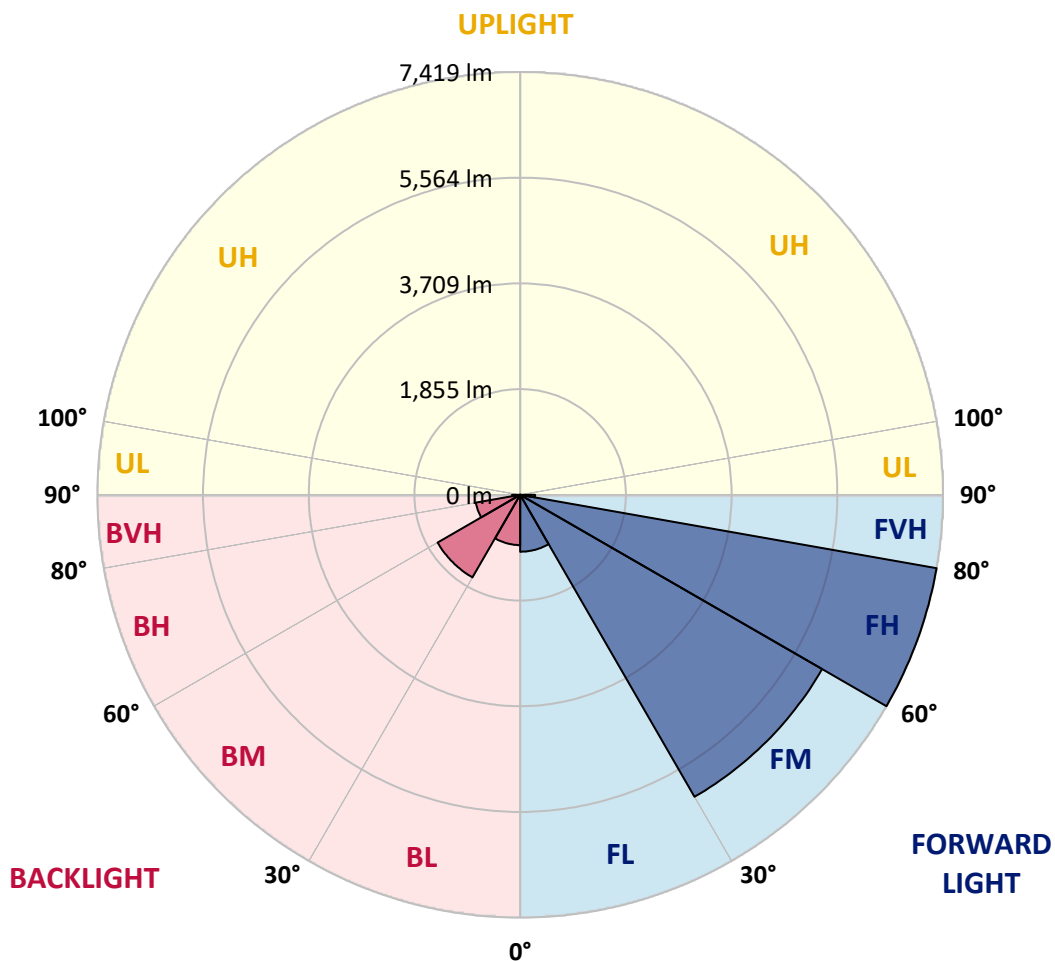
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.8	5.5			
FM	(30°-60°)	6117.3	33.5			
FH	(60°-80°)	7418.8	40.6			G3/7500
FVH	(80°-90°)	260.2	1.4			G3/500
BL	(0°-30°)	882.3	4.8	B2/1000		
BM	(30°-60°)	1673.3	9.2	B2/2500		
BH	(60°-80°)	788.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	142.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3
2.5°	2650.5	2655.7	2649.6	2657.5	2670.7	2684.7	2694.4	2708.4	2724.2	2746.2	2751.4
5°	2525.8	2533.7	2533.7	2547.7	2573.2	2596.0	2617.1	2639.9	2673.3	2711.0	2726.0
7.5°	2388.8	2393.2	2401.1	2422.2	2459.1	2491.6	2521.4	2558.3	2603.9	2654.0	2680.3
10°	2223.8	2229.9	2242.2	2272.1	2322.1	2366.9	2409.9	2460.8	2518.8	2581.1	2614.5
12.5°	2107.0	2105.3	2110.5	2132.5	2176.4	2230.8	2293.1	2358.1	2429.2	2502.1	2542.5
15°	2067.5	2057.9	2037.7	2032.4	2056.1	2110.5	2182.5	2262.4	2347.6	2435.4	2485.4
17.5°	2092.1	2075.4	2020.1	1979.7	1976.2	2017.5	2093.9	2183.4	2281.7	2388.8	2451.2
20°	2246.6	2207.1	2071.0	1977.1	1944.6	1964.8	2031.5	2126.3	2242.2	2384.4	2464.3
22.5°	2616.2	2558.3	2269.4	2094.7	1985.0	1960.4	2010.5	2111.4	2246.6	2438.9	2540.7
25°	3154.4	3071.9	2610.1	2388.0	2161.5	2030.6	2042.1	2145.7	2308.9	2565.3	2688.2
27.5°	3579.3	3525.8	3055.2	2801.5	2482.8	2220.3	2144.8	2231.7	2436.2	2772.5	2898.0
30°	3832.1	3799.7	3531.0	3270.3	2892.8	2522.3	2341.4	2393.2	2635.5	3059.6	3163.2
32.5°	4125.4	4106.1	3974.4	3734.7	3335.2	2919.1	2653.1	2634.7	2902.4	3404.6	3452.0
35°	4429.1	4423.0	4345.7	4173.7	3810.2	3442.3	3066.6	2941.9	3193.0	3762.8	3732.9
37.5°	4711.8	4701.3	4656.5	4556.4	4307.1	4004.2	3488.0	3257.1	3506.4	4105.2	3972.6
40°	5232.4	5149.9	4996.3	4920.8	4809.3	4477.4	3822.5	3551.2	3831.3	4431.8	4179.8
42.5°	5867.2	5732.9	5446.7	5343.1	5327.3	4850.5	4050.8	3836.5	4158.7	4755.7	4383.5
45°	6366.7	6240.3	5993.6	5862.8	5920.7	5188.5	4279.9	4141.2	4495.9	5095.5	4593.3
47.5°	6899.6	6701.2	6374.6	6414.1	6540.5	5508.1	4513.4	4468.6	4865.5	5475.6	4854.1
50°	6918.9	6767.1	6624.0	6860.1	7056.8	5802.2	4805.8	4811.9	5317.6	5954.1	5200.8
52.5°	6517.7	6485.2	6712.6	7084.0	7367.6	6034.9	5138.5	5166.6	5896.2	6503.7	5581.9
55°	6377.3	6340.4	6602.9	7005.9	7409.7	6227.1	5499.3	5550.2	6595.9	7083.1	5953.2
57.5°	6719.6	6638.0	6655.6	6969.0	7307.0	6437.8	5892.6	5995.4	7356.1	7589.7	6192.0
60°	7676.6	7501.9	7170.0	7162.1	7362.3	6753.9	6347.4	6472.9	8146.3	7832.0	6099.0
62.5°	9018.9	8844.2	8222.7	7817.9	7788.1	7275.4	6905.8	6939.1	8602.8	7503.6	5530.9
65°	10471.9	10315.6	9621.2	9049.7	8774.0	8139.3	7554.6	7147.2	8453.6	6600.2	4537.1
67.5°	12235.7	12068.0	11471.0	10943.3	10678.2	9533.4	8010.2	6947.9	7506.3	5113.0	3261.5
70°	13469.1	13297.9	13062.7	13490.2	14139.0	11544.7	8069.0	6137.6	5606.4	3398.5	1963.0
72.5°	11859.9	11780.0	12209.3	14009.9	16712.2	12765.0	7293.8	4468.6	3256.2	1804.1	1136.0
73°	10866.1	10848.5	11580.7	13645.6	16730.6	12577.2	6954.1	4153.5	2792.7	1596.1	1038.6
75°	4906.7	5048.1	6652.9	10422.7	14535.8	10363.9	4894.4	2382.7	1577.6	1102.7	784.0
77.5°	1179.1	1228.2	2081.6	4949.7	9179.6	6176.2	2217.6	1178.2	1008.7	778.7	572.4
80°	502.2	518.9	801.5	1828.7	4322.0	2487.2	1021.9	789.3	698.0	543.4	401.2
82.5°	279.2	296.7	454.8	829.6	1744.4	848.1	623.3	549.6	459.2	327.5	260.7
85°	158.0	167.7	266.0	463.5	739.2	340.6	373.1	365.2	259.0	168.6	128.2
87.5°	74.6	80.8	128.2	215.1	289.7	133.4	189.6	208.9	162.4	102.7	66.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3	2759.3
2.5°	2757.6	2773.4	2791.8	2801.5	2810.2	2820.8	2831.3	2831.3	2833.1	2833.9
5°	2738.3	2770.7	2799.7	2812.0	2814.6	2814.6	2812.0	2798.0	2785.7	2790.9
7.5°	2697.9	2745.3	2769.9	2765.5	2732.1	2693.5	2661.0	2621.5	2601.3	2597.8
10°	2639.9	2694.4	2698.7	2654.8	2572.3	2489.8	2421.3	2354.6	2323.0	2315.1
12.5°	2575.8	2625.9	2597.8	2507.4	2374.8	2254.5	2167.6	2100.0	2070.1	2062.2
15°	2524.0	2558.3	2487.2	2344.9	2178.1	2050.8	1978.8	1928.8	1907.7	1901.6
17.5°	2496.8	2503.8	2373.9	2181.6	2004.3	1898.1	1853.3	1829.6	1821.7	1817.3
20°	2510.0	2460.8	2265.9	2029.8	1862.1	1787.5	1776.9	1770.8	1769.0	1766.4
22.5°	2575.8	2447.7	2166.7	1885.8	1737.4	1704.9	1713.7	1712.8	1711.1	1709.3
25°	2693.5	2459.1	2070.1	1748.8	1632.9	1625.9	1641.7	1641.7	1634.7	1634.7
27.5°	2848.9	2482.8	1962.2	1618.9	1538.1	1539.0	1551.3	1547.8	1539.9	1534.6
30°	3038.5	2497.7	1835.7	1502.1	1449.5	1445.9	1449.5	1434.5	1410.8	1409.1
32.5°	3232.5	2479.3	1689.1	1398.5	1355.5	1347.6	1345.0	1323.9	1296.7	1288.8
35°	3408.1	2411.7	1539.9	1316.0	1266.0	1248.4	1260.7	1253.7	1229.1	1223.0
37.5°	3536.3	2286.1	1405.6	1243.1	1201.9	1197.5	1205.4	1208.0	1179.1	1172.9
40°	3622.3	2115.8	1290.6	1181.7	1189.6	1172.9	1146.6	1128.1	1119.4	1116.7
42.5°	3691.7	1938.5	1194.0	1152.7	1192.2	1143.9	1086.9	1057.0	1072.8	1079.8
45°	3771.6	1765.5	1113.2	1116.7	1179.1	1110.6	1045.6	1016.6	1022.8	1024.5
47.5°	3881.3	1554.8	1026.3	1058.8	1135.2	1087.8	1020.2	978.9	949.9	936.7
50°	4033.2	1305.5	935.9	993.8	1092.1	1071.1	980.6	936.7	883.2	870.9
52.5°	4138.5	1072.8	861.2	939.4	1053.5	1037.7	949.0	892.0	835.8	825.3
55°	4081.5	891.1	796.3	878.8	1002.6	996.4	922.7	846.3	802.4	793.6
57.5°	3796.2	776.1	746.2	821.7	940.3	961.3	887.6	807.7	776.1	769.9
60°	3251.8	704.1	714.6	783.1	889.3	926.2	852.5	786.6	765.6	761.2
62.5°	2523.2	655.8	690.9	755.0	849.8	901.6	833.2	784.0	776.1	770.8
65°	1807.6	617.2	665.5	726.9	813.8	878.8	826.1	780.5	782.2	777.8
67.5°	1228.2	582.9	634.7	695.3	778.7	858.6	816.5	768.2	790.1	784.9
70°	859.5	549.6	598.7	654.9	734.8	830.5	798.9	749.7	748.0	726.9
72.5°	670.7	505.7	549.6	598.7	678.6	791.0	763.8	708.5	679.5	657.6
73°	640.0	495.2	537.3	586.5	666.3	781.4	754.1	697.1	664.6	644.4
75°	529.4	449.5	488.1	532.0	613.7	735.7	706.7	645.3	604.0	591.7
77.5°	416.1	384.5	421.4	460.9	540.8	669.0	636.5	577.7	554.8	544.3
80°	308.2	318.7	351.2	386.3	468.8	597.9	568.9	510.1	611.9	586.5
82.5°	216.8	241.4	271.3	302.9	393.3	528.5	493.4	432.8	447.7	372.2
85°	128.2	158.0	186.1	213.3	283.6	438.1	407.4	345.0	282.7	269.5
87.5°	74.6	87.8	95.7	123.8	194.9	330.1	287.1	255.5	146.6	99.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)