

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: P194054

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194054
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-06-LED-E1-T4FT-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 19255 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

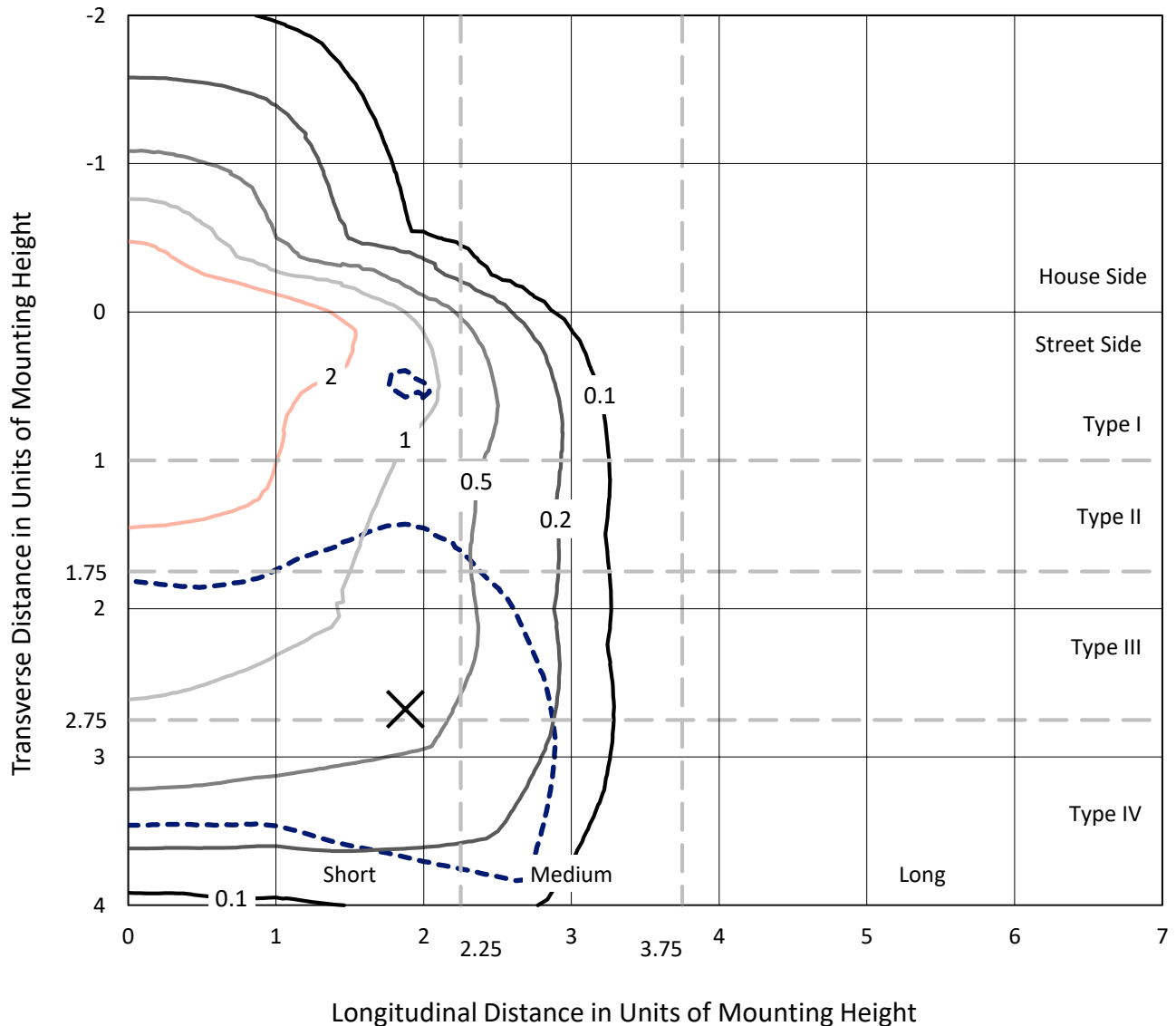


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

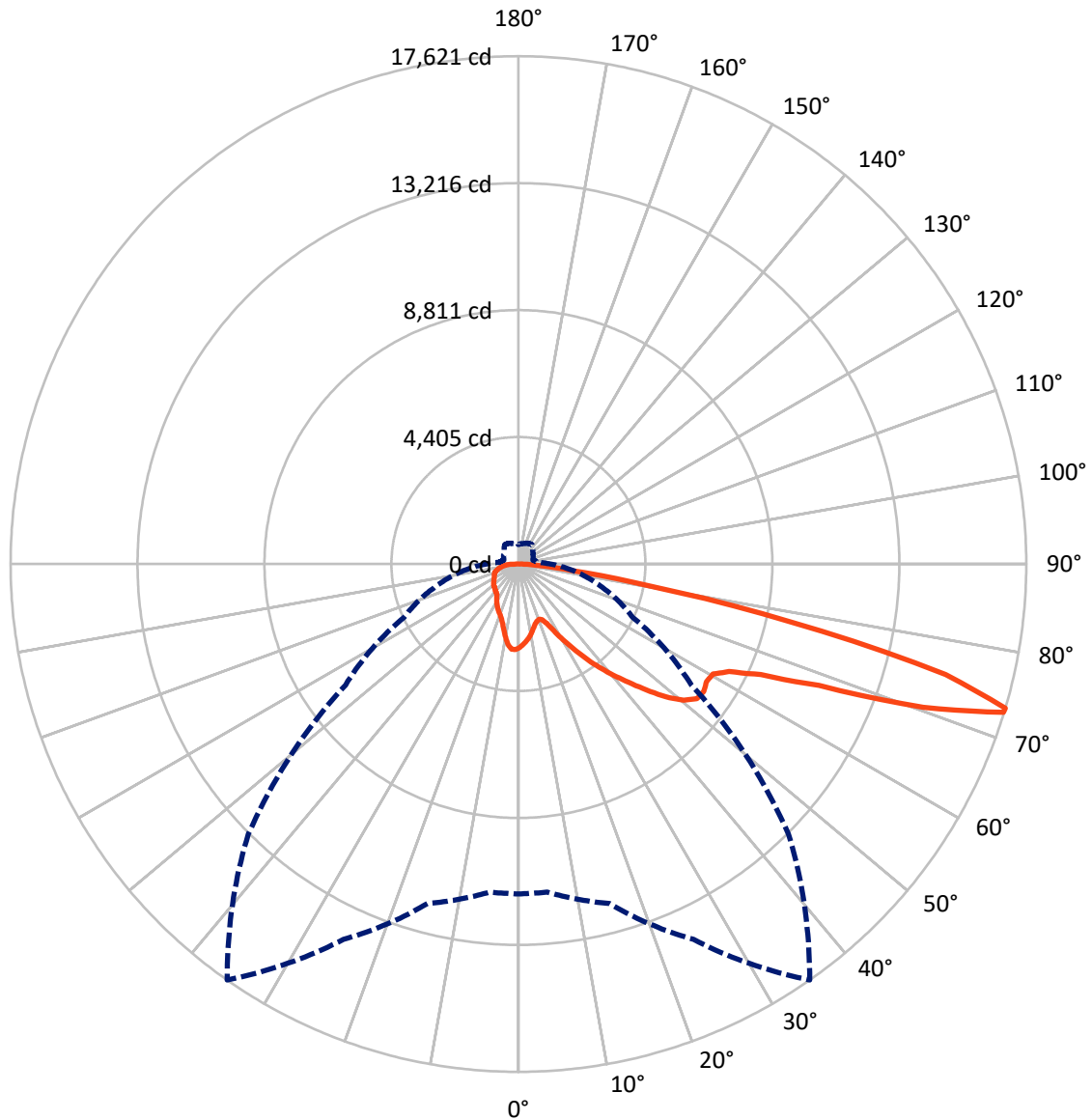


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Non-Cutoff

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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	3672.5	0.0	3672.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15582.5	0.0	15582.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	19255.0	0.0	19255.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.4
10°-20°	656.6	3.4
20°-30°	1061.6	5.5
30°-40°	1780.1	9.2
40°-50°	2743.9	14.3
50°-60°	3681.2	19.1
60°-70°	4904.2	25.5
70°-80°	3740.4	19.4
80°-90°	424.0	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°	19255.0	100.0
0°-180°	19255.0	100.0



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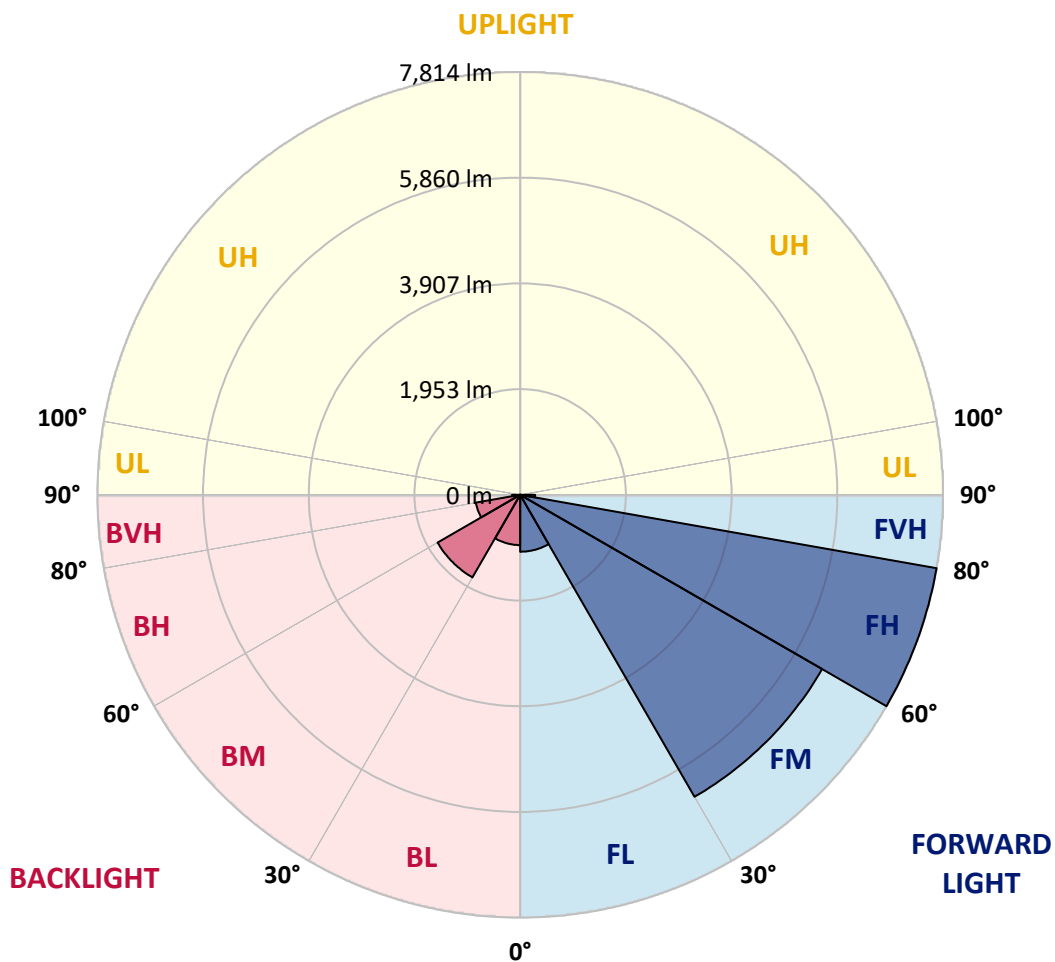
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.0	5.5			
FM	(30°-60°)	6442.8	33.5			
FH	(60°-80°)	7813.7	40.6			G4/12000
FVH	(80°-90°)	274.0	1.4			G3/500
BL	(0°-30°)	929.3	4.8	B2/1000		
BM	(30°-60°)	1762.4	9.2	B2/2500		
BH	(60°-80°)	830.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	149.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2
2.5°	2791.5	2797.1	2790.6	2798.9	2812.8	2827.6	2837.8	2852.5	2869.2	2892.3	2897.9
5°	2660.2	2668.5	2668.5	2683.3	2710.2	2734.2	2756.4	2780.4	2815.6	2855.3	2871.0
7.5°	2516.0	2520.6	2528.9	2551.1	2589.9	2624.2	2655.6	2694.4	2742.5	2795.2	2823.0
10°	2342.1	2348.6	2361.6	2393.0	2445.7	2492.9	2538.2	2591.8	2652.8	2718.5	2753.6
12.5°	2219.2	2217.3	2222.9	2246.0	2292.2	2349.5	2415.2	2483.6	2558.5	2635.3	2677.8
15°	2177.6	2167.4	2146.1	2140.6	2165.5	2222.9	2298.7	2382.8	2472.5	2565.0	2617.7
17.5°	2203.4	2185.9	2127.6	2085.1	2081.4	2124.8	2205.3	2299.6	2403.2	2516.0	2581.6
20°	2366.2	2324.6	2181.3	2082.3	2048.1	2069.4	2139.6	2239.5	2361.6	2511.4	2595.5
22.5°	2755.5	2694.4	2390.2	2206.2	2090.6	2064.7	2117.5	2223.8	2366.2	2568.7	2675.9
25°	3322.3	3235.4	2749.0	2515.1	2276.5	2138.7	2150.7	2259.8	2431.8	2701.8	2831.3
27.5°	3769.8	3713.4	3217.8	2950.6	2614.9	2338.4	2258.9	2350.5	2565.9	2920.0	3052.3
30°	4036.1	4001.9	3718.9	3444.3	3046.7	2656.5	2466.0	2520.6	2775.8	3222.4	3331.5
32.5°	4344.9	4324.6	4185.9	3933.5	3512.7	3074.5	2794.3	2774.9	3056.9	3585.8	3635.7
35°	4664.9	4658.4	4577.0	4395.8	4013.0	3625.6	3229.8	3098.5	3363.0	3963.1	3931.6
37.5°	4962.6	4951.5	4904.3	4798.9	4536.3	4217.3	3673.6	3430.5	3693.1	4323.7	4184.0
40°	5510.9	5424.0	5262.2	5182.7	5065.2	4715.7	4025.9	3740.2	4035.2	4667.6	4402.3
42.5°	6179.4	6038.0	5736.5	5627.4	5610.8	5108.7	4266.3	4040.7	4380.1	5008.8	4616.8
45°	6705.6	6572.4	6312.6	6174.8	6235.8	5464.7	4507.7	4361.6	4735.1	5366.7	4837.8
47.5°	7266.8	7057.9	6713.9	6755.5	6888.6	5801.3	4753.6	4706.5	5124.4	5767.0	5112.4
50°	7287.2	7127.2	6976.5	7225.2	7432.3	6111.0	5061.5	5068.0	5600.6	6271.0	5477.6
52.5°	6864.6	6830.4	7069.9	7461.0	7759.7	6356.1	5412.0	5441.6	6210.0	6849.8	5878.9
55°	6716.7	6677.8	6954.3	7378.7	7804.1	6558.5	5792.0	5845.6	6946.9	7460.1	6270.1
57.5°	7077.3	6991.3	7009.8	7339.9	7695.9	6780.5	6206.3	6314.4	7747.6	7993.6	6521.6
60°	8085.1	7901.1	7551.6	7543.3	7754.1	7113.3	6685.2	6817.5	8579.8	8248.8	6423.5
62.5°	9498.9	9314.9	8660.3	8234.0	8202.6	7662.6	7273.3	7308.4	9060.7	7903.0	5825.3
65°	11029.2	10864.6	10133.2	9531.3	9241.0	8572.4	7956.6	7527.6	8903.5	6951.5	4778.6
67.5°	12886.9	12710.3	12081.5	11525.8	11246.5	10040.8	8436.5	7317.7	7905.8	5385.2	3435.1
70°	14186.0	14005.7	13757.9	14208.2	14891.5	12159.2	8498.5	6464.2	5904.8	3579.3	2067.5
72.5°	12491.1	12407.0	12859.1	14755.6	17601.7	13444.4	7682.0	4706.5	3429.5	1900.2	1196.5
73°	11444.4	11425.9	12197.1	14371.8	17621.1	13246.5	7324.2	4374.5	2941.3	1681.0	1093.9
75°	5167.9	5316.7	7007.0	10977.5	15309.4	10915.5	5154.9	2509.5	1661.6	1161.4	825.7
77.5°	1241.8	1293.6	2192.3	5213.2	9668.1	6504.9	2335.7	1240.9	1062.4	820.2	602.9
80°	528.9	546.5	844.2	1926.0	4552.1	2619.5	1076.3	831.3	735.1	572.4	422.6
82.5°	294.0	312.5	479.0	873.8	1837.3	893.2	656.5	578.8	483.6	344.9	274.6
85°	166.4	176.6	280.2	488.2	778.6	358.8	393.0	384.7	272.8	177.5	135.0
87.5°	78.6	85.1	135.0	226.5	305.1	140.5	199.7	220.1	171.1	108.2	70.3
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°	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2
2.5°	2904.3	2921.0	2940.4	2950.6	2959.8	2970.9	2982.0	2982.0	2983.8	2984.8
5°	2884.0	2918.2	2948.7	2961.7	2964.4	2964.4	2961.7	2946.9	2933.9	2939.5
7.5°	2841.5	2891.4	2917.3	2912.7	2877.5	2836.8	2802.6	2761.0	2739.7	2736.0
10°	2780.4	2837.8	2842.4	2796.1	2709.2	2622.3	2550.2	2479.9	2446.6	2438.3
12.5°	2712.9	2765.6	2736.0	2640.8	2501.2	2374.5	2283.0	2211.8	2180.3	2172.0
15°	2658.4	2694.4	2619.5	2469.7	2294.1	2160.0	2084.2	2031.5	2009.3	2002.8
17.5°	2629.7	2637.1	2500.3	2297.8	2111.0	1999.1	1951.9	1927.0	1918.7	1914.0
20°	2643.6	2591.8	2386.5	2137.8	1961.2	1882.6	1871.5	1865.0	1863.2	1860.4
22.5°	2712.9	2577.9	2282.0	1986.2	1829.9	1795.7	1804.9	1804.0	1802.1	1800.3
25°	2836.8	2589.9	2180.3	1841.9	1719.9	1712.5	1729.1	1729.1	1721.7	1721.7
27.5°	3000.5	2614.9	2066.6	1705.1	1620.0	1620.9	1633.9	1630.2	1621.8	1616.3
30°	3200.2	2630.6	1933.4	1582.1	1526.6	1522.9	1526.6	1510.9	1485.9	1484.1
32.5°	3404.6	2611.2	1779.0	1473.0	1427.7	1419.3	1416.6	1394.4	1365.7	1357.4
35°	3589.5	2540.0	1621.8	1386.1	1333.3	1314.9	1327.8	1320.4	1294.5	1288.0
37.5°	3724.5	2407.8	1480.4	1309.3	1265.8	1261.2	1269.5	1272.3	1241.8	1235.3
40°	3815.1	2228.4	1359.2	1244.6	1252.9	1235.3	1207.6	1188.2	1178.9	1176.2
42.5°	3888.2	2041.6	1257.5	1214.1	1255.7	1204.8	1144.7	1113.3	1129.9	1137.3
45°	3972.3	1859.5	1172.5	1176.2	1241.8	1169.7	1101.3	1070.7	1077.2	1079.1
47.5°	4087.9	1637.6	1080.9	1115.1	1195.6	1145.6	1074.4	1031.0	1000.5	986.6
50°	4247.8	1375.0	985.7	1046.7	1150.3	1128.1	1032.8	986.6	930.2	917.3
52.5°	4358.8	1129.9	907.1	989.4	1109.6	1092.9	999.5	939.4	880.3	869.2
55°	4298.7	938.5	838.7	925.6	1056.0	1049.5	971.8	891.4	845.1	835.9
57.5°	3998.2	817.4	786.0	865.5	990.3	1012.5	934.8	850.7	817.4	810.9
60°	3424.9	741.6	752.7	824.8	936.7	975.5	897.8	828.5	806.3	801.7
62.5°	2657.4	690.7	727.7	795.2	895.1	949.6	877.5	825.7	817.4	811.8
65°	1903.9	650.0	700.9	765.6	857.2	925.6	870.1	822.0	823.9	819.2
67.5°	1293.6	614.0	668.5	732.3	820.2	904.3	859.9	809.1	832.2	826.6
70°	905.2	578.8	630.6	689.8	773.9	874.7	841.4	789.7	787.8	765.6
72.5°	706.4	532.6	578.8	630.6	714.8	833.1	804.4	746.2	715.7	692.6
73°	674.1	521.5	565.9	617.7	701.8	822.9	794.3	734.2	700.0	678.7
75°	557.6	473.4	514.1	560.3	646.3	774.9	744.3	679.6	636.2	623.2
77.5°	438.3	405.0	443.8	485.4	569.6	704.6	670.4	608.4	584.4	573.3
80°	324.6	335.6	369.9	406.8	493.8	629.7	599.2	537.2	644.5	617.7
82.5°	228.4	254.3	285.7	319.0	414.2	556.6	519.7	455.9	471.6	392.1
85°	135.0	166.4	196.0	224.7	298.7	461.4	429.0	363.4	297.7	283.9
87.5°	78.6	92.5	100.8	130.4	205.3	347.7	302.4	269.1	154.4	104.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)