

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: P191531

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191531
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 18701.6 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

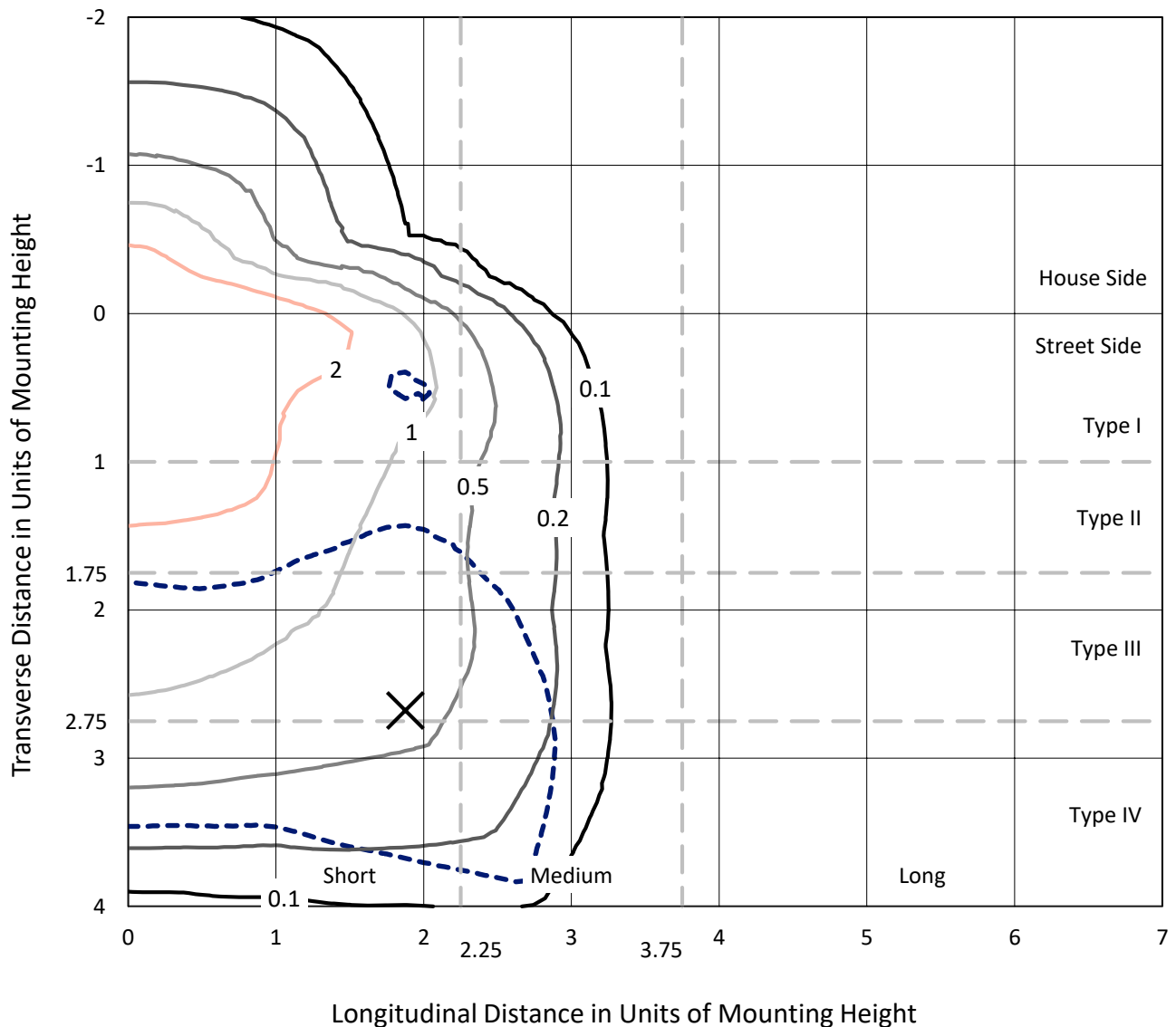
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

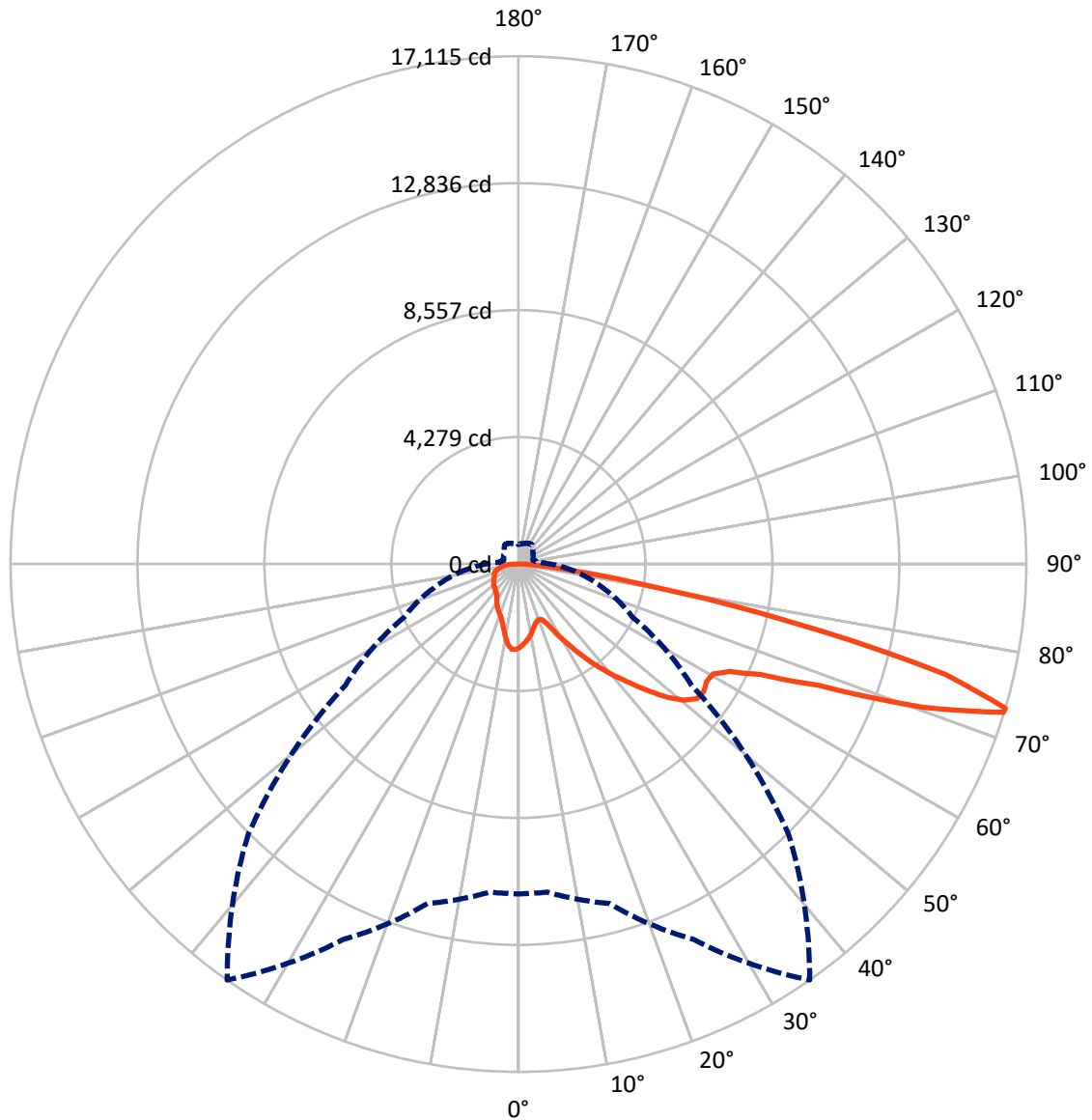
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	3566.9	0.0	3566.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15134.7	0.0	15134.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	18701.6	0.0	18701.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.4
10°-20°	637.8	3.4
20°-30°	1031.0	5.5
30°-40°	1728.9	9.2
40°-50°	2665.0	14.3
50°-60°	3575.4	19.1
60°-70°	4763.2	25.5
70°-80°	3632.9	19.4
80°-90°	411.8	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°	18701.6	100.0
0°-180°	18701.6	100.0

Coefficient of Utilization



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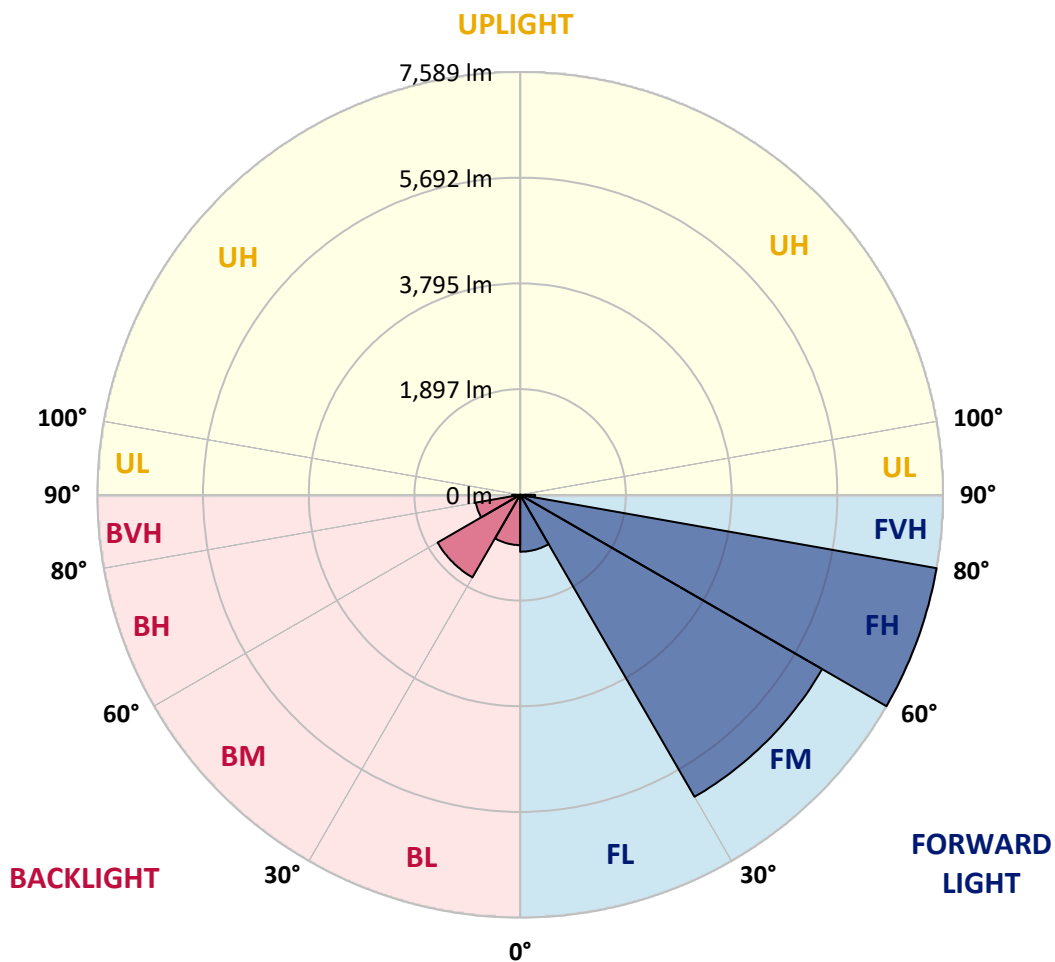
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1021.7	5.5			
FM	(30°-60°)	6257.7	33.5			
FH	(60°-80°)	7589.1	40.6			G4/12000
FVH	(80°-90°)	266.2	1.4			G3/500
BL	(0°-30°)	902.6	4.8	B2/1000		
BM	(30°-60°)	1711.7	9.2	B2/2500		
BH	(60°-80°)	807.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	145.6	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°	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6
2.5°	2711.3	2716.7	2710.4	2718.5	2732.0	2746.3	2756.2	2770.6	2786.7	2809.2	2814.5
5°	2583.8	2591.9	2591.9	2606.2	2632.3	2655.6	2677.2	2700.5	2734.7	2773.2	2788.6
7.5°	2443.6	2448.1	2456.2	2477.8	2515.5	2548.8	2579.3	2617.0	2663.7	2714.9	2741.8
10°	2274.8	2281.1	2293.7	2324.2	2375.4	2421.2	2465.2	2517.3	2576.6	2640.3	2674.5
12.5°	2155.4	2153.6	2158.9	2181.4	2226.4	2282.0	2345.7	2412.2	2485.0	2559.5	2600.9
15°	2115.0	2105.1	2084.5	2079.0	2103.3	2158.9	2232.6	2314.3	2401.5	2491.3	2542.4
17.5°	2140.1	2123.0	2066.5	2025.1	2021.6	2063.8	2142.0	2233.5	2334.1	2443.6	2507.5
20°	2298.2	2257.8	2118.5	2022.5	1989.2	2009.9	2078.1	2175.1	2293.7	2439.1	2520.9
22.5°	2676.2	2617.0	2321.5	2142.8	2030.6	2005.4	2056.6	2159.9	2298.2	2494.9	2599.0
25°	3226.8	3142.4	2670.0	2442.8	2211.1	2077.2	2089.0	2194.9	2361.9	2624.2	2749.9
27.5°	3661.4	3606.7	3125.3	2865.8	2539.8	2271.3	2194.0	2282.9	2492.1	2836.1	2964.5
30°	3920.0	3886.9	3612.0	3345.4	2959.2	2580.2	2395.1	2448.1	2696.0	3129.8	3235.8
32.5°	4220.1	4200.3	4065.6	3820.4	3411.7	2986.1	2714.0	2695.2	2969.0	3482.7	3531.2
35°	4530.8	4524.5	4445.4	4269.5	3897.6	3521.3	3137.0	3009.4	3266.3	3849.2	3818.6
37.5°	4819.9	4809.2	4763.4	4661.0	4406.0	4096.1	3568.1	3331.9	3586.9	4199.4	4063.8
40°	5352.5	5268.1	5111.0	5033.7	4919.7	4580.2	3910.2	3632.7	3919.2	4533.5	4275.7
42.5°	6001.9	5864.5	5571.7	5465.7	5449.6	4961.8	4143.8	3924.6	4254.1	4864.8	4484.1
45°	6512.8	6383.5	6131.2	5997.4	6056.6	5307.6	4378.1	4236.2	4599.1	5212.4	4698.7
47.5°	7058.0	6855.0	6520.9	6561.3	6690.6	5634.5	4617.0	4571.2	4977.2	5601.3	4965.5
50°	7077.7	6922.4	6776.0	7017.5	7218.8	5935.4	4916.1	4922.3	5439.6	6090.8	5320.2
52.5°	6667.3	6634.0	6866.7	7246.6	7536.7	6173.4	5256.4	5285.2	6031.5	6653.0	5710.0
55°	6523.7	6485.9	6754.4	7166.7	7579.8	6370.0	5625.5	5677.6	6747.3	7245.7	6089.8
57.5°	6873.8	6790.3	6808.4	7128.9	7474.7	6585.6	6027.8	6133.0	7524.9	7763.9	6334.1
60°	7852.8	7674.1	7334.6	7326.5	7531.3	6908.9	6493.1	6621.5	8333.3	8011.8	6239.0
62.5°	9225.9	9047.2	8411.4	7997.3	7966.8	7442.4	7064.3	7098.4	8800.2	7675.8	5657.8
65°	10712.2	10552.4	9842.0	9257.4	8975.4	8326.1	7728.0	7311.2	8647.6	6751.7	4641.2
67.5°	12516.5	12345.0	11734.3	11194.5	10923.3	9752.2	8194.0	7107.4	7678.6	5230.3	3336.4
70°	13778.2	13603.1	13362.5	13799.8	14463.5	11809.7	8254.2	6278.5	5735.1	3476.5	2008.1
72.5°	12132.1	12050.4	12489.5	14331.4	17095.8	13058.0	7461.2	4571.2	3330.9	1845.5	1162.1
73°	11115.5	11097.5	11846.5	13958.8	17114.6	12865.9	7113.7	4248.8	2856.8	1632.7	1062.4
75°	5019.3	5164.0	6805.6	10661.9	14869.4	10601.8	5006.7	2437.4	1613.8	1128.0	802.0
77.5°	1206.2	1256.4	2129.4	5063.3	9390.3	6317.9	2268.5	1205.2	1031.9	796.6	585.5
80°	513.7	530.8	819.9	1870.7	4421.2	2544.3	1045.4	807.4	714.0	555.9	410.4
82.5°	285.6	303.5	465.2	848.6	1784.4	867.6	637.6	562.2	469.7	335.0	266.7
85°	161.6	171.5	272.1	474.1	756.2	348.4	381.7	373.6	264.9	172.5	131.1
87.5°	76.3	82.7	131.1	220.0	296.3	136.5	194.0	213.7	166.1	105.1	68.2
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°	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6
2.5°	2820.9	2837.1	2855.9	2865.8	2874.7	2885.5	2896.3	2896.3	2898.1	2898.9
5°	2801.1	2834.3	2864.0	2876.5	2879.2	2879.2	2876.5	2862.2	2849.6	2855.0
7.5°	2759.8	2808.3	2833.5	2829.0	2794.8	2755.3	2722.1	2681.7	2661.0	2657.4
10°	2700.5	2756.2	2760.6	2715.7	2631.3	2546.9	2476.9	2408.6	2376.3	2368.2
12.5°	2634.9	2686.2	2657.4	2564.9	2429.3	2306.2	2217.3	2148.2	2117.6	2109.5
15°	2581.9	2617.0	2544.3	2398.7	2228.1	2097.9	2024.2	1973.1	1951.5	1945.2
17.5°	2554.1	2561.3	2428.4	2231.7	2050.3	1941.7	1895.8	1871.6	1863.5	1859.0
20°	2567.6	2517.3	2317.9	2076.4	1904.8	1828.5	1817.7	1811.4	1809.6	1806.9
22.5°	2634.9	2503.9	2216.4	1929.1	1777.3	1744.0	1753.0	1752.1	1750.4	1748.5
25°	2755.3	2515.5	2117.6	1788.9	1670.4	1663.2	1679.4	1679.4	1672.2	1672.2
27.5°	2914.3	2539.8	2007.2	1656.1	1573.4	1574.3	1586.9	1583.3	1575.2	1569.8
30°	3108.2	2555.0	1877.8	1536.6	1482.8	1479.1	1482.8	1467.4	1443.2	1441.4
32.5°	3306.7	2536.2	1727.9	1430.6	1386.6	1378.5	1375.9	1354.3	1326.5	1318.4
35°	3486.3	2467.1	1575.2	1346.2	1295.1	1277.1	1289.6	1282.5	1257.3	1251.1
37.5°	3617.5	2338.6	1437.9	1271.6	1229.5	1225.0	1233.1	1235.7	1206.2	1199.8
40°	3705.4	2164.4	1320.2	1208.8	1216.9	1199.8	1172.9	1154.0	1145.1	1142.3
42.5°	3776.4	1983.0	1221.4	1179.2	1219.6	1170.2	1111.8	1081.3	1097.4	1104.6
45°	3858.2	1806.0	1138.7	1142.3	1206.2	1136.1	1069.6	1039.9	1046.3	1048.0
47.5°	3970.4	1590.5	1049.9	1083.1	1161.3	1112.8	1043.6	1001.4	971.7	958.2
50°	4125.8	1335.5	957.4	1016.6	1117.2	1095.7	1003.1	958.2	903.5	890.9
52.5°	4233.5	1097.4	881.0	961.0	1077.7	1061.5	970.8	912.5	855.0	844.2
55°	4175.2	911.6	814.6	899.0	1025.6	1019.3	943.9	865.7	820.8	811.8
57.5°	3883.3	793.9	763.3	840.6	961.9	983.4	908.0	826.2	793.9	787.6
60°	3326.4	720.3	731.0	801.1	909.7	947.5	872.1	804.7	783.2	778.7
62.5°	2581.1	670.9	706.8	772.3	869.3	922.3	852.3	802.0	793.9	788.5
65°	1849.1	631.4	680.8	743.6	832.5	899.0	845.1	798.4	800.2	795.7
67.5°	1256.4	596.3	649.3	711.3	796.6	878.3	835.2	785.8	808.2	802.9
70°	879.2	562.2	612.4	669.9	751.7	849.6	817.2	766.9	765.2	743.6
72.5°	686.1	517.3	562.2	612.4	694.2	809.2	781.3	724.8	695.1	672.7
73°	654.7	506.6	549.6	600.0	681.6	799.3	771.4	713.1	679.9	659.2
75°	541.6	459.8	499.3	544.2	627.8	752.6	722.9	660.1	617.9	605.3
77.5°	425.6	393.3	431.1	471.5	553.2	684.4	651.1	591.0	567.5	556.8
80°	315.3	326.0	359.3	395.2	479.6	611.6	582.0	521.8	625.9	600.0
82.5°	221.8	246.9	277.5	309.9	402.3	540.6	504.7	442.7	458.0	380.7
85°	131.1	161.6	190.4	218.2	290.1	448.2	416.8	352.9	289.2	275.7
87.5°	76.3	89.8	97.9	126.6	199.4	337.7	293.7	261.4	150.0	101.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)