

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: P300375

Luminaire Tested: **GLNA-AF-04-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300375
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: GLNA-AF-04-LED-E1-T4FT-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18812.5 lumens
Efficiency: N/A
Efficacy: 110.0 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): 171
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

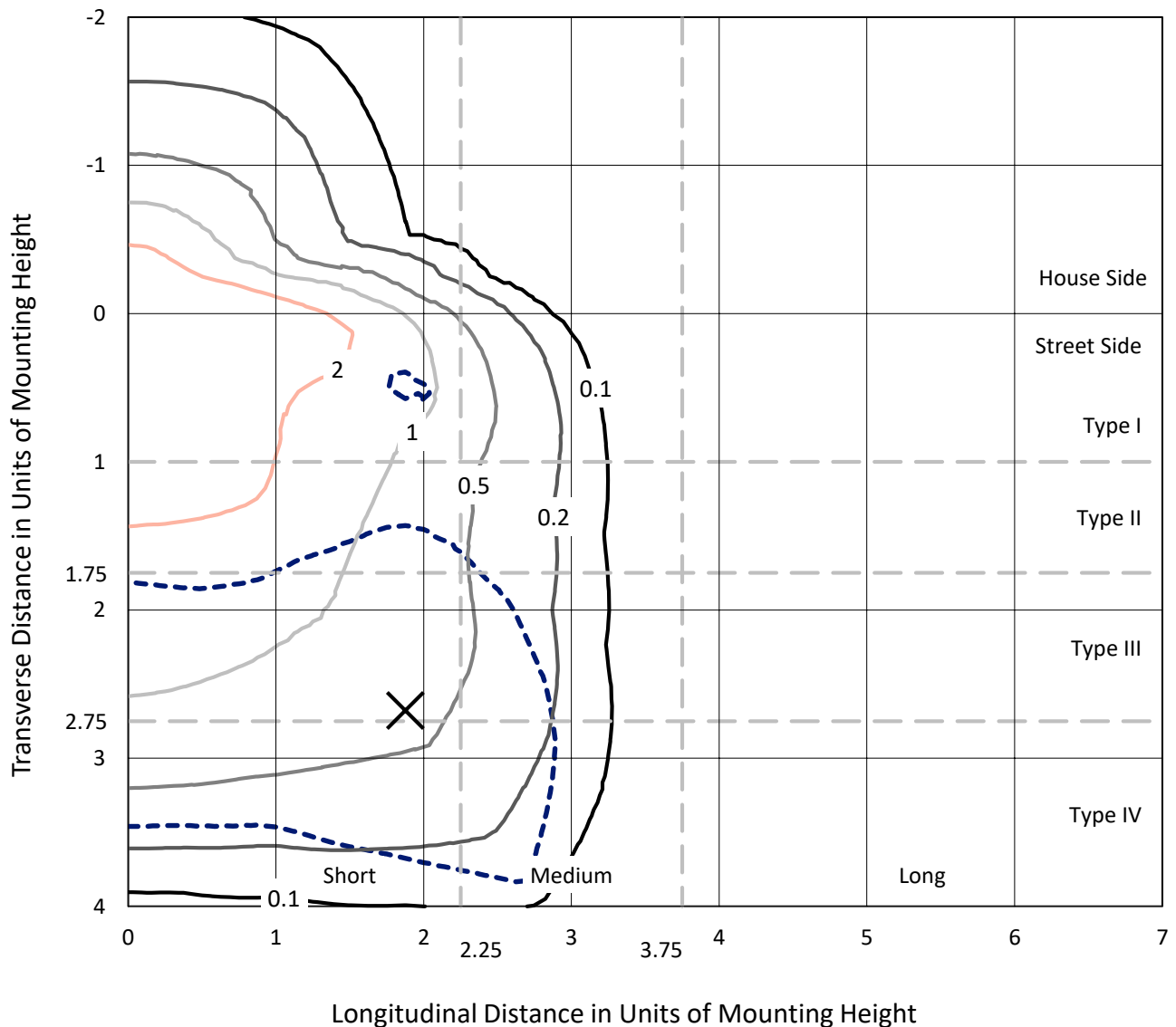


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Iso-Footcandle Lines of Horizontal Illumination

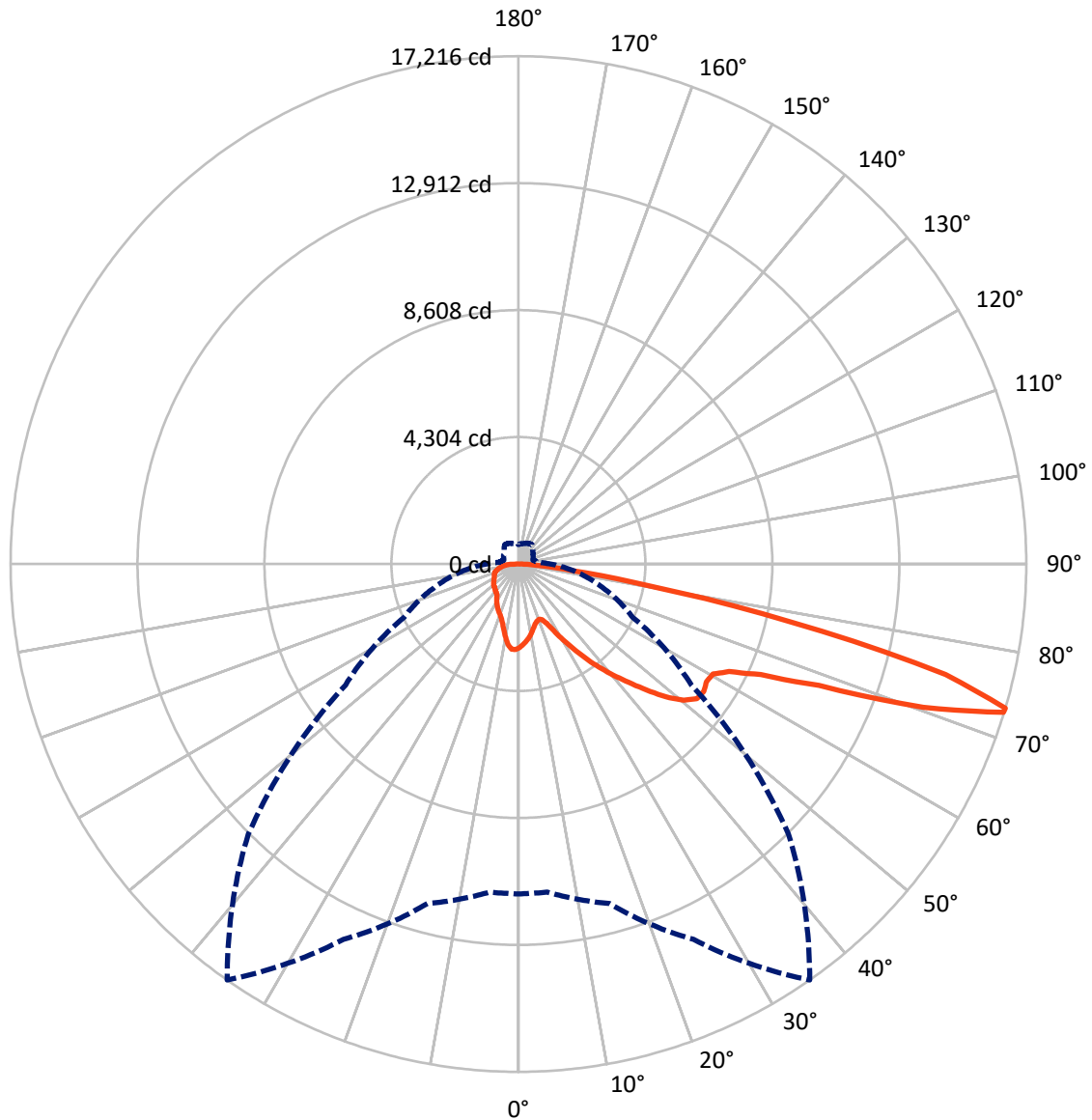
× Max cd
 - - - 1/2 Max cd



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	3588.1	0.0	3588.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15224.4	0.0	15224.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	18812.5	0.0	18812.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	1.4
10°-20°	641.5	3.4
20°-30°	1037.2	5.5
30°-40°	1739.2	9.2
40°-50°	2680.8	14.3
50°-60°	3596.6	19.1
60°-70°	4791.5	25.5
70°-80°	3654.4	19.4
80°-90°	414.2	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°	18812.5	100.0
0°-180°	18812.5	100.0

Coefficient of Utilization



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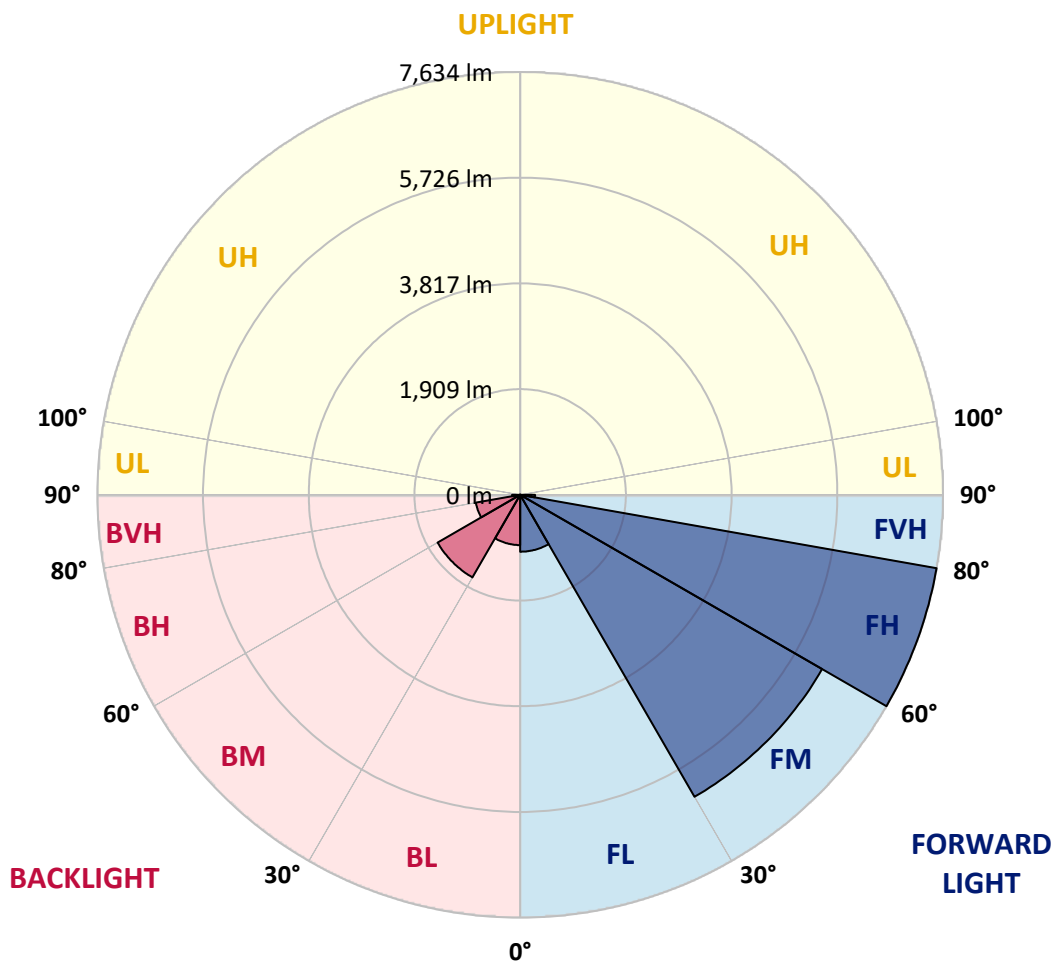
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1027.8	5.5			
FM	(30°-60°)	6294.8	33.5			
FH	(60°-80°)	7634.1	40.6			G4/12000
FVH	(80°-90°)	267.7	1.4			G3/500
BL	(0°-30°)	908.0	4.8	B2/1000		
BM	(30°-60°)	1721.9	9.2	B2/2500		
BH	(60°-80°)	811.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	146.5	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°	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4
2.5°	2727.4	2732.8	2726.5	2734.6	2748.1	2762.6	2772.5	2787.0	2803.3	2825.8	2831.3
5°	2599.1	2607.2	2607.2	2621.7	2647.9	2671.4	2693.0	2716.5	2750.9	2789.7	2805.1
7.5°	2458.2	2462.7	2470.8	2492.5	2530.4	2563.9	2594.6	2632.5	2679.5	2731.0	2758.1
10°	2288.3	2294.6	2307.3	2338.0	2389.5	2435.6	2479.8	2532.2	2591.9	2656.0	2690.3
12.5°	2168.2	2166.4	2171.8	2194.4	2239.5	2295.5	2359.7	2426.5	2499.7	2574.7	2616.2
15°	2127.5	2117.6	2096.8	2091.4	2115.8	2171.8	2245.9	2328.1	2415.7	2506.0	2557.5
17.5°	2152.8	2135.6	2078.7	2037.2	2033.6	2076.0	2154.6	2246.8	2347.9	2458.2	2522.3
20°	2311.8	2271.1	2131.1	2034.5	2001.0	2021.8	2090.5	2188.0	2307.3	2453.6	2535.8
22.5°	2692.1	2632.5	2335.3	2155.5	2042.6	2017.3	2068.8	2172.7	2311.8	2509.6	2614.4
25°	3245.9	3161.0	2685.8	2457.2	2224.2	2089.6	2101.3	2207.9	2375.9	2639.7	2766.2
27.5°	3683.2	3628.1	3143.8	2882.8	2554.8	2284.7	2207.0	2296.4	2506.9	2852.9	2982.1
30°	3943.3	3909.9	3633.5	3365.2	2976.7	2595.5	2409.4	2462.7	2712.0	3148.4	3255.0
32.5°	4245.1	4225.2	4089.7	3843.1	3432.0	3003.8	2730.1	2711.1	2986.6	3503.4	3552.2
35°	4557.7	4551.3	4471.8	4294.8	3920.8	3542.2	3155.6	3027.3	3285.7	3872.0	3841.3
37.5°	4848.5	4837.7	4791.6	4688.6	4432.1	4120.4	3589.2	3351.6	3608.2	4224.3	4087.9
40°	5384.3	5299.3	5141.3	5063.6	4948.8	4607.3	3933.4	3654.3	3942.4	4560.4	4301.1
42.5°	6037.4	5899.2	5604.7	5498.1	5481.8	4991.3	4168.3	3947.9	4279.4	4893.7	4510.7
45°	6551.5	6421.4	6167.5	6032.9	6092.5	5339.1	4404.1	4261.3	4626.3	5243.3	4726.6
47.5°	7099.8	6895.7	6559.6	6600.2	6730.3	5667.9	4644.4	4598.3	5006.6	5634.5	4994.9
50°	7119.7	6963.4	6816.2	7059.2	7261.5	5970.6	4945.2	4951.5	5471.9	6126.9	5351.7
52.5°	6706.8	6673.4	6907.4	7289.5	7581.3	6210.0	5287.6	5316.5	6067.2	6692.4	5743.8
55°	6562.3	6524.4	6794.5	7209.1	7624.7	6407.8	5658.9	5711.3	6787.2	7288.6	6126.0
57.5°	6914.6	6830.6	6848.7	7171.2	7519.0	6624.6	6063.6	6169.3	7569.6	7809.9	6371.7
60°	7899.3	7719.6	7378.1	7369.9	7575.9	6949.9	6531.6	6660.8	8382.7	8059.2	6275.9
62.5°	9280.6	9100.9	8461.2	8044.8	8014.1	7486.5	7106.1	7140.5	8852.4	7721.4	5691.4
65°	10775.8	10615.0	9900.4	9312.3	9028.6	8375.4	7773.8	7354.6	8698.8	6791.8	4668.8
67.5°	12590.7	12418.1	11803.8	11260.9	10988.1	9810.0	8242.6	7149.5	7724.1	5261.4	3356.1
70°	13860.0	13683.8	13441.7	13881.7	14549.3	11879.7	8303.2	6315.7	5769.1	3497.1	2020.0
72.5°	12204.0	12121.8	12563.6	14416.5	17197.1	13135.4	7505.5	4598.3	3350.7	1856.5	1169.0
73°	11181.4	11163.3	11916.8	14041.6	17216.1	12942.1	7155.8	4274.0	2873.7	1642.4	1068.7
75°	5049.1	5194.6	6846.0	10725.2	14957.6	10664.6	5036.5	2451.8	1623.4	1134.7	806.7
77.5°	1213.3	1263.9	2142.0	5093.4	9446.0	6355.4	2282.0	1212.4	1038.0	801.3	589.0
80°	516.7	533.9	824.8	1881.8	4447.4	2559.3	1051.6	812.2	718.2	559.2	412.9
82.5°	287.3	305.3	468.0	853.7	1795.1	872.7	641.4	565.5	472.5	337.0	268.3
85°	162.6	172.5	273.7	477.0	760.7	350.5	383.9	375.8	266.5	173.5	131.9
87.5°	76.8	83.1	131.9	221.3	298.1	137.3	195.1	215.0	167.1	105.7	68.7
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°	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4
2.5°	2837.6	2853.8	2872.8	2882.8	2891.8	2902.6	2913.5	2913.5	2915.3	2916.2
5°	2817.7	2851.1	2880.9	2893.6	2896.3	2896.3	2893.6	2879.1	2866.5	2871.9
7.5°	2776.1	2824.9	2850.2	2845.7	2811.4	2771.6	2738.2	2697.6	2676.8	2673.2
10°	2716.5	2772.5	2777.1	2731.9	2647.0	2562.0	2491.6	2422.9	2390.4	2382.3
12.5°	2650.6	2702.1	2673.2	2580.1	2443.7	2319.9	2230.5	2160.9	2130.2	2122.1
15°	2597.3	2632.5	2559.3	2413.0	2241.3	2110.3	2036.3	1984.8	1963.1	1956.8
17.5°	2569.3	2576.5	2442.8	2244.9	2062.5	1953.2	1907.1	1882.7	1874.6	1870.0
20°	2582.8	2532.2	2331.7	2088.7	1916.1	1839.3	1828.5	1822.2	1820.4	1817.6
22.5°	2650.6	2518.7	2229.6	1940.5	1787.8	1754.4	1763.4	1762.5	1760.7	1758.9
25°	2771.6	2530.4	2130.2	1799.6	1680.3	1673.1	1689.4	1689.4	1682.1	1682.1
27.5°	2931.5	2554.8	2019.1	1665.9	1582.8	1583.7	1596.3	1592.7	1584.6	1579.1
30°	3126.7	2570.2	1889.0	1545.7	1491.5	1487.9	1491.5	1476.2	1451.8	1450.0
32.5°	3326.3	2551.2	1738.1	1439.1	1394.9	1386.7	1384.0	1362.3	1334.3	1326.2
35°	3507.0	2481.6	1584.6	1354.2	1302.7	1284.6	1297.3	1290.1	1264.8	1258.4
37.5°	3638.9	2352.5	1446.3	1279.2	1236.8	1232.2	1240.4	1243.1	1213.3	1206.9
40°	3727.4	2177.2	1328.0	1216.0	1224.1	1206.9	1179.8	1160.9	1151.8	1149.1
42.5°	3798.8	1994.7	1228.6	1186.2	1226.8	1177.1	1118.4	1087.7	1104.0	1111.2
45°	3881.0	1816.7	1145.5	1149.1	1213.3	1142.8	1075.9	1046.1	1052.5	1054.3
47.5°	3993.9	1599.9	1056.1	1089.5	1168.1	1119.3	1049.8	1007.3	977.5	963.9
50°	4150.2	1343.4	963.0	1022.6	1123.8	1102.1	1009.1	963.9	908.8	896.2
52.5°	4258.6	1104.0	886.2	966.6	1084.1	1067.8	976.6	917.9	860.0	849.2
55°	4199.9	917.0	819.4	904.3	1031.7	1025.4	949.5	870.9	825.7	816.7
57.5°	3906.3	798.6	767.9	845.6	967.5	989.2	913.3	831.1	798.6	792.3
60°	3346.2	724.5	735.4	805.8	915.1	953.1	877.2	809.4	787.8	783.2
62.5°	2596.4	674.8	711.0	776.9	874.5	927.8	857.3	806.7	798.6	793.2
65°	1860.1	635.1	684.8	748.0	837.5	904.3	850.1	803.1	804.9	800.4
67.5°	1263.9	599.9	653.2	715.5	801.3	883.5	840.2	790.5	813.1	807.6
70°	884.4	565.5	616.1	673.9	756.1	854.6	822.1	771.5	769.7	748.0
72.5°	690.2	520.4	565.5	616.1	698.3	814.0	786.0	729.0	699.2	676.6
73°	658.6	509.5	552.9	603.5	685.7	804.0	776.0	717.3	683.9	663.1
75°	544.8	462.5	502.3	547.5	631.5	757.0	727.2	664.0	621.5	608.9
77.5°	428.2	395.7	433.6	474.3	556.5	688.4	655.0	594.4	570.9	560.1
80°	317.1	327.9	361.4	397.5	482.4	615.2	585.4	524.9	629.7	603.5
82.5°	223.1	248.4	279.2	311.7	404.7	543.8	507.7	445.4	460.7	383.0
85°	131.9	162.6	191.5	219.5	291.8	450.8	419.2	355.0	290.9	277.3
87.5°	76.8	90.3	98.5	127.4	200.6	339.7	295.4	262.9	150.9	102.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)