

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: P298994

Luminaire Tested: **GLNA-AF-04-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14962.9 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 129  
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

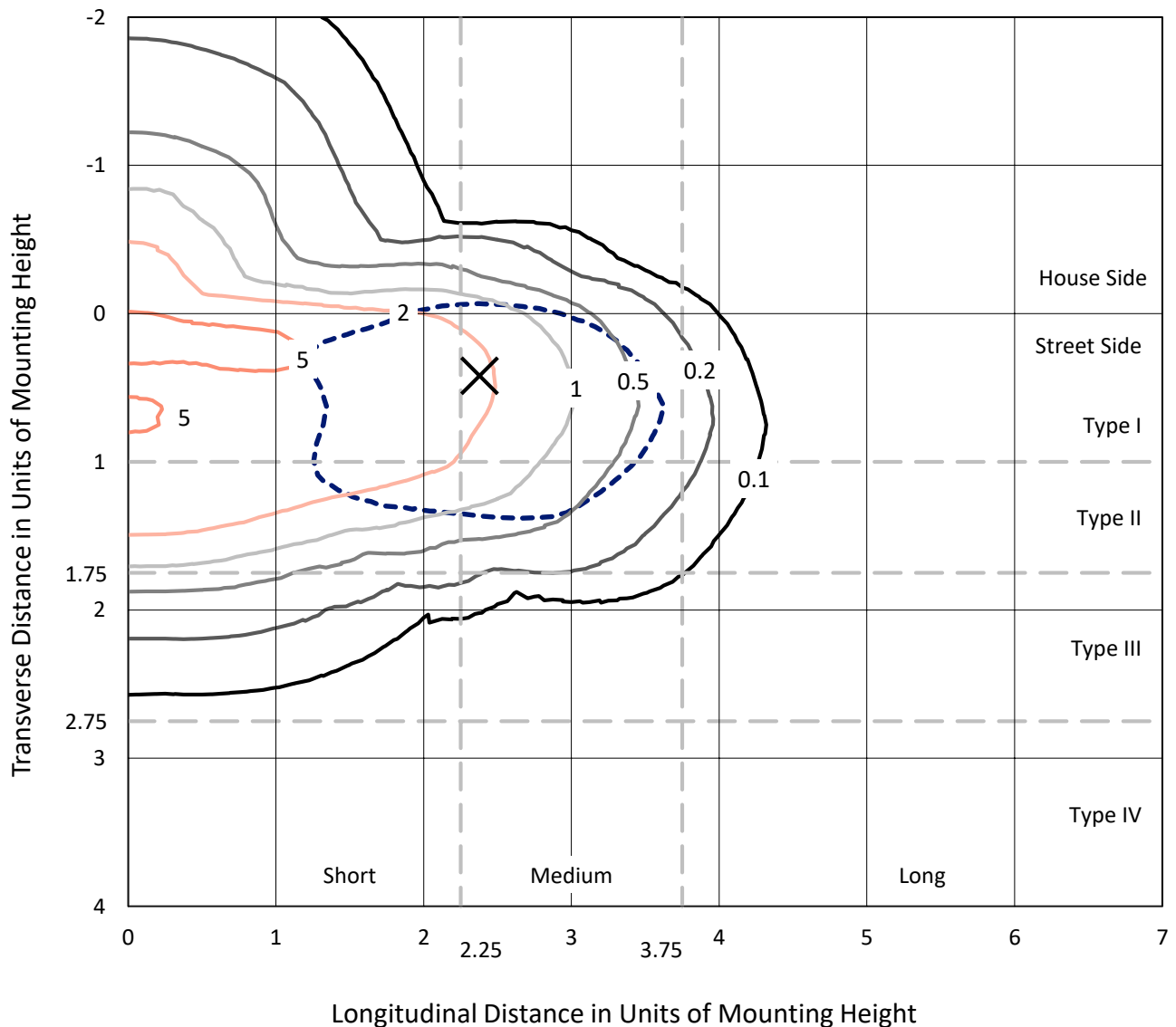


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

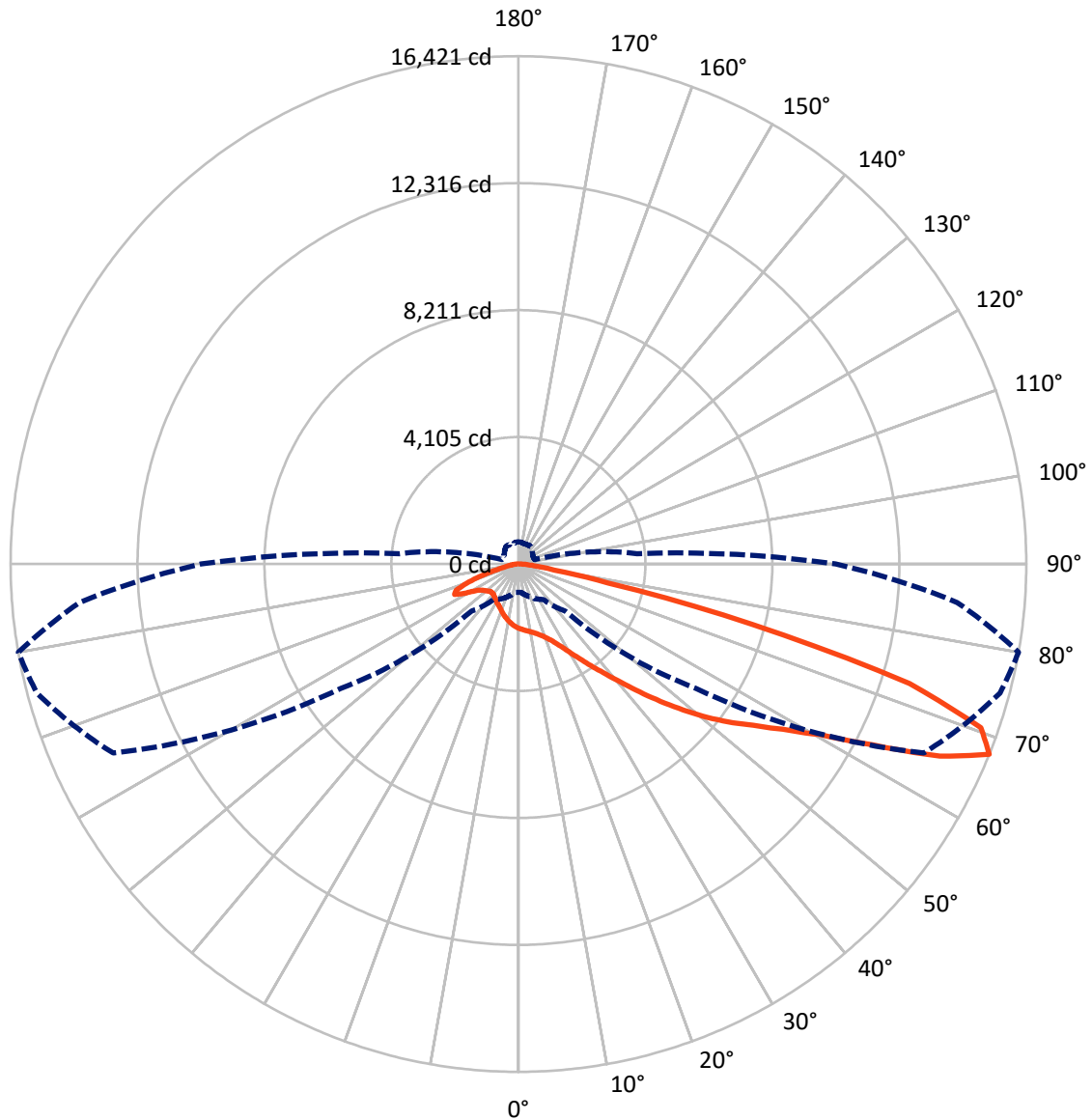


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2755.6	0.0	2755.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12207.3	0.0	12207.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	14962.9	0.0	14962.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.8	1.3
10°-20°	552.4	3.7
20°-30°	914.3	6.1
30°-40°	1495.6	10.0
40°-50°	2414.8	16.1
50°-60°	3486.3	23.3
60°-70°	3847.4	25.7
70°-80°	1773.4	11.9
80°-90°	286.8	1.9
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°	14962.9	100.0
0°-180°	14962.9	100.0



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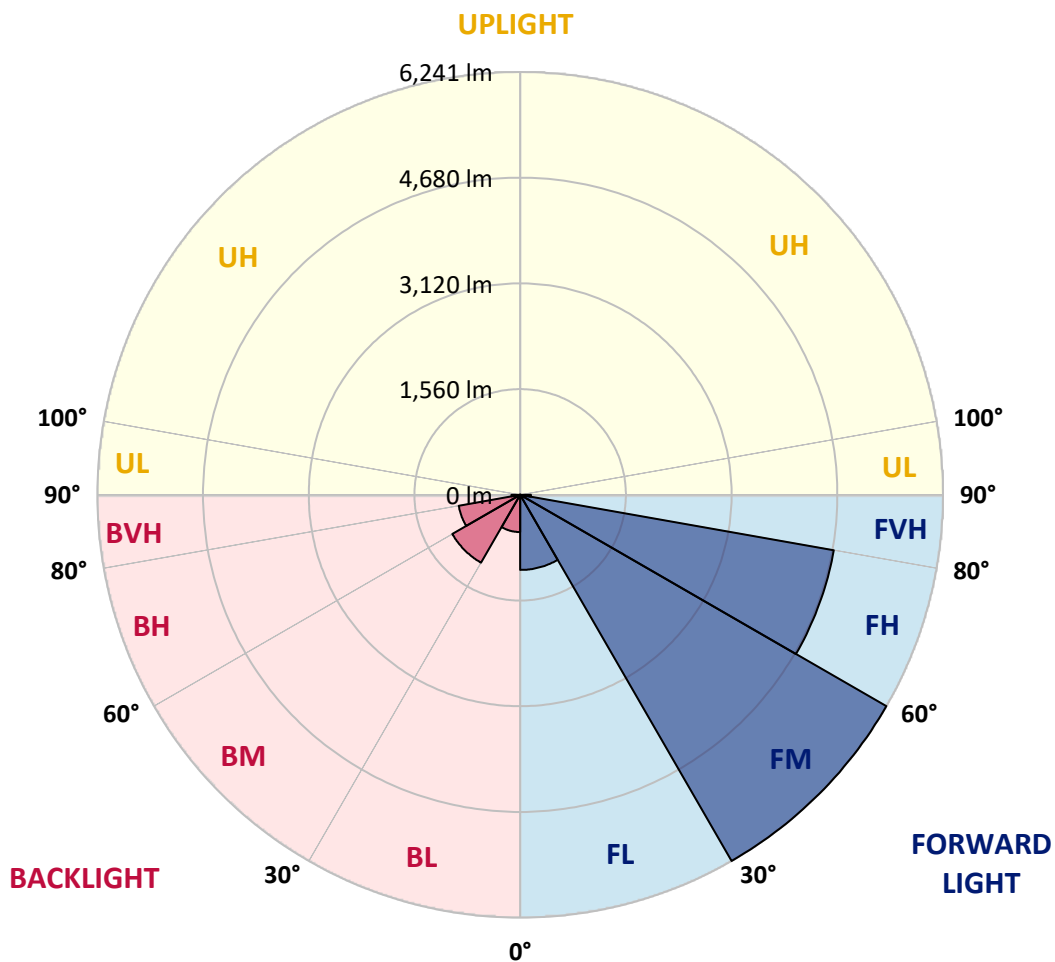
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.7	7.4			
FM (30°-60°)	6240.7	41.7			
FH (60°-80°)	4700.2	31.4			G2/5000
FVH (80°-90°)	157.7	1.1			G2/225
BL (0°-30°)	549.8	3.7	B2/1000		
BM (30°-60°)	1156.2	7.7	B2/2500		
BH (60°-80°)	920.5	6.2	B2/1000		G2/1000
BVH (80°-90°)	129.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8
2.5°	2274.0	2260.7	2262.9	2259.3	2248.2	2229.1	2208.4	2170.9	2131.8	2111.2	2095.0
5°	2464.0	2460.4	2455.2	2443.4	2415.4	2375.7	2326.3	2260.0	2188.5	2151.0	2114.9
7.5°	2606.2	2604.0	2597.4	2590.0	2562.8	2514.9	2440.5	2346.2	2242.3	2190.8	2134.8
10°	2618.0	2621.7	2626.8	2646.7	2650.4	2624.6	2548.8	2434.6	2298.3	2232.0	2160.6
12.5°	2517.8	2525.9	2545.8	2596.6	2650.4	2682.1	2643.0	2527.4	2363.9	2283.6	2193.0
15°	2385.2	2389.6	2414.0	2483.9	2580.4	2678.4	2715.2	2629.8	2448.6	2349.9	2241.6
17.5°	2328.5	2330.7	2347.7	2394.1	2483.9	2623.9	2755.8	2741.0	2552.4	2432.4	2301.2
20°	2299.8	2304.9	2329.2	2374.9	2431.6	2553.9	2761.6	2861.1	2676.2	2535.5	2376.4
22.5°	2381.5	2379.3	2388.2	2411.0	2458.9	2532.6	2757.2	2984.8	2833.8	2668.1	2474.4
25°	2572.3	2580.4	2565.0	2539.2	2554.7	2606.2	2780.8	3118.9	3031.3	2838.3	2602.5
27.5°	2844.2	2836.0	2813.2	2752.8	2721.1	2743.2	2858.9	3263.3	3276.6	3062.2	2772.0
30°	3115.2	3108.6	3086.5	3012.8	2948.0	2929.6	3010.6	3429.0	3569.0	3331.1	2979.7
32.5°	3396.6	3389.3	3368.6	3295.0	3216.9	3174.2	3226.5	3620.6	3913.7	3652.2	3224.3
35°	3743.6	3729.6	3686.1	3583.7	3507.1	3474.0	3498.3	3861.4	4311.5	4032.3	3521.1
37.5°	4069.9	4091.3	4047.1	3905.6	3806.2	3794.4	3821.7	4155.4	4740.3	4457.4	3862.2
40°	4397.7	4401.4	4361.6	4246.0	4143.6	4124.4	4192.9	4511.9	5246.3	4965.7	4276.9
42.5°	4736.6	4743.9	4676.9	4570.1	4495.0	4498.6	4576.7	4929.6	5826.8	5564.5	4754.2
45°	5138.0	5149.1	5075.4	4935.5	4867.0	5004.7	4972.3	5398.1	6463.2	6245.2	5302.3
47.5°	5557.9	5574.9	5518.9	5387.8	5302.3	5491.6	5367.9	5917.4	7148.3	6975.2	5904.1
50°	5787.0	5811.3	5865.8	5856.3	5837.8	5806.2	5809.1	6474.3	7854.7	7735.4	6522.9
52.5°	5664.0	5663.3	5862.1	6103.8	6361.6	6380.7	6346.9	7061.4	8514.8	8478.7	7105.6
55°	5101.2	5139.5	5440.8	5908.6	6612.8	7052.6	7152.7	7733.9	9163.0	9205.0	7697.1
57.5°	4164.2	4195.9	4602.5	5254.4	6273.9	7451.8	8298.9	8711.5	9887.9	10083.8	8484.6
60°	2824.3	2862.6	3293.5	4076.5	5362.0	7229.3	9389.9	10455.8	10755.6	11201.3	9589.5
62.5°	1659.6	1694.3	2045.6	2571.6	3775.3	6195.8	9868.7	12937.5	12133.9	12887.4	11274.9
65°	1142.5	1166.1	1337.0	1600.7	2169.4	4173.0	9275.0	14650.9	14254.6	14976.5	13229.2
67.5°	919.3	916.4	1051.9	1231.7	1396.7	2151.7	7013.5	14457.2	16119.8	16421.1	14243.6
70°	757.3	754.3	846.4	995.2	1116.0	1211.8	3820.2	12200.2	15739.7	15862.0	13309.5
72.5°	633.5	636.5	695.4	805.9	915.6	912.7	1678.8	8582.5	12382.1	13227.8	10609.8
75°	534.8	536.3	575.3	653.4	743.3	735.2	910.5	4649.6	7197.7	7786.2	5881.3
77.5°	455.2	456.7	481.8	525.2	589.3	586.4	664.4	2008.8	3002.5	2965.7	2011.8
80°	405.9	405.9	417.7	425.8	461.1	447.9	492.8	965.0	1269.2	1172.0	802.9
82.5°	318.2	319.7	391.9	388.9	363.2	346.2	346.2	568.7	672.5	621.7	470.0
85°	179.0	178.3	252.7	305.0	319.7	243.8	241.6	318.2	366.1	322.6	227.6
87.5°	76.6	78.1	117.1	135.5	181.2	151.7	149.5	164.3	186.4	161.3	105.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8
2.5°	2079.5	2060.4	2018.4	1966.1	1918.9	1888.0	1860.0	1819.5	1821.7	1793.7	1773.1
5°	2078.0	2038.3	1941.0	1825.4	1714.2	1633.9	1573.5	1518.9	1505.7	1479.9	1464.4
7.5°	2079.5	2014.7	1851.2	1666.3	1528.5	1426.9	1375.3	1346.6	1339.9	1331.1	1331.8
10°	2084.7	1993.3	1752.5	1517.5	1373.1	1306.1	1293.5	1302.4	1312.7	1315.6	1316.4
12.5°	2096.5	1974.2	1644.2	1384.9	1275.9	1255.2	1276.6	1306.8	1326.7	1336.3	1335.5
15°	2123.0	1959.5	1540.3	1281.0	1222.1	1233.1	1272.9	1315.6	1344.4	1357.6	1358.4
17.5°	2151.7	1938.1	1433.5	1201.5	1182.3	1210.3	1259.6	1309.7	1345.1	1359.8	1362.8
20°	2189.3	1911.6	1321.5	1141.8	1144.7	1176.4	1222.8	1272.9	1311.9	1324.5	1330.4
22.5°	2238.6	1882.8	1223.6	1093.2	1102.0	1126.3	1162.4	1205.9	1239.8	1245.7	1250.8
25°	2304.9	1851.9	1145.5	1049.0	1052.7	1066.6	1091.0	1116.7	1140.3	1133.7	1138.8
27.5°	2394.1	1825.4	1087.3	1008.5	1001.8	1004.8	1017.3	1025.4	1037.9	1019.5	1021.7
30°	2498.7	1796.7	1042.3	973.1	954.7	949.5	952.5	956.9	966.5	941.4	937.7
32.5°	2620.2	1762.0	1000.4	942.2	916.4	906.1	907.5	919.3	956.2	940.7	932.6
35°	2761.6	1723.0	956.2	908.3	890.6	875.9	874.4	911.2	1021.0	1011.4	1004.0
37.5°	2927.4	1683.9	912.0	870.0	871.4	855.2	850.1	892.1	1033.5	995.9	990.8
40°	3138.1	1663.3	874.4	829.5	847.9	845.7	835.3	856.7	951.0	882.5	873.6
42.5°	3398.8	1666.3	846.4	786.0	819.9	843.4	827.2	828.0	861.9	810.3	802.2
45°	3720.7	1700.9	826.5	751.4	788.2	841.2	824.3	812.5	815.5	788.2	783.8
47.5°	4096.4	1772.3	812.5	722.6	758.0	833.1	823.6	808.1	801.5	786.7	783.0
50°	4514.1	1876.2	802.2	695.4	730.7	819.9	824.3	803.7	796.3	790.4	788.2
52.5°	4924.4	1994.8	786.7	671.8	709.4	803.7	826.5	799.2	791.1	786.7	784.5
55°	5381.9	2142.9	763.2	651.9	691.7	783.0	826.5	792.6	783.8	784.5	783.8
57.5°	5999.9	2382.3	735.2	635.0	670.3	758.0	812.5	785.3	774.2	774.9	775.7
60°	6965.6	2804.4	701.3	618.0	643.8	728.5	793.4	769.0	758.0	760.9	761.7
62.5°	8385.9	3423.9	657.1	593.0	615.8	696.9	766.8	748.4	737.4	744.7	744.7
65°	9862.1	3970.5	602.6	561.3	586.4	662.2	733.7	722.6	711.6	728.5	727.8
67.5°	10259.1	3848.2	548.1	526.7	556.9	623.9	693.9	688.0	682.1	711.6	710.1
70°	9113.7	3089.5	498.0	491.3	524.5	582.7	651.2	651.2	647.5	669.6	664.4
72.5°	6943.5	2190.8	450.1	453.8	487.7	537.7	604.8	609.9	604.0	615.1	610.7
75°	3717.1	1253.8	402.2	412.5	442.0	492.1	553.2	558.4	554.7	554.0	556.2
77.5°	1235.3	612.9	352.1	368.3	394.1	444.9	499.4	507.5	498.7	497.2	496.5
80°	550.3	385.3	296.9	318.2	341.1	391.2	442.7	449.3	439.8	453.0	436.1
82.5°	353.6	253.4	237.9	261.5	283.6	337.4	386.0	387.5	378.6	439.8	374.9
85°	171.6	156.9	179.0	200.4	219.5	265.2	319.7	320.4	298.3	271.8	262.2
87.5°	85.4	91.3	119.3	138.5	148.1	181.9	232.8	228.4	218.8	198.9	183.4
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)