

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: P300422

Luminaire Tested: **GLNA-AF-02-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-02-LED-E1-AFL-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7934.1 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

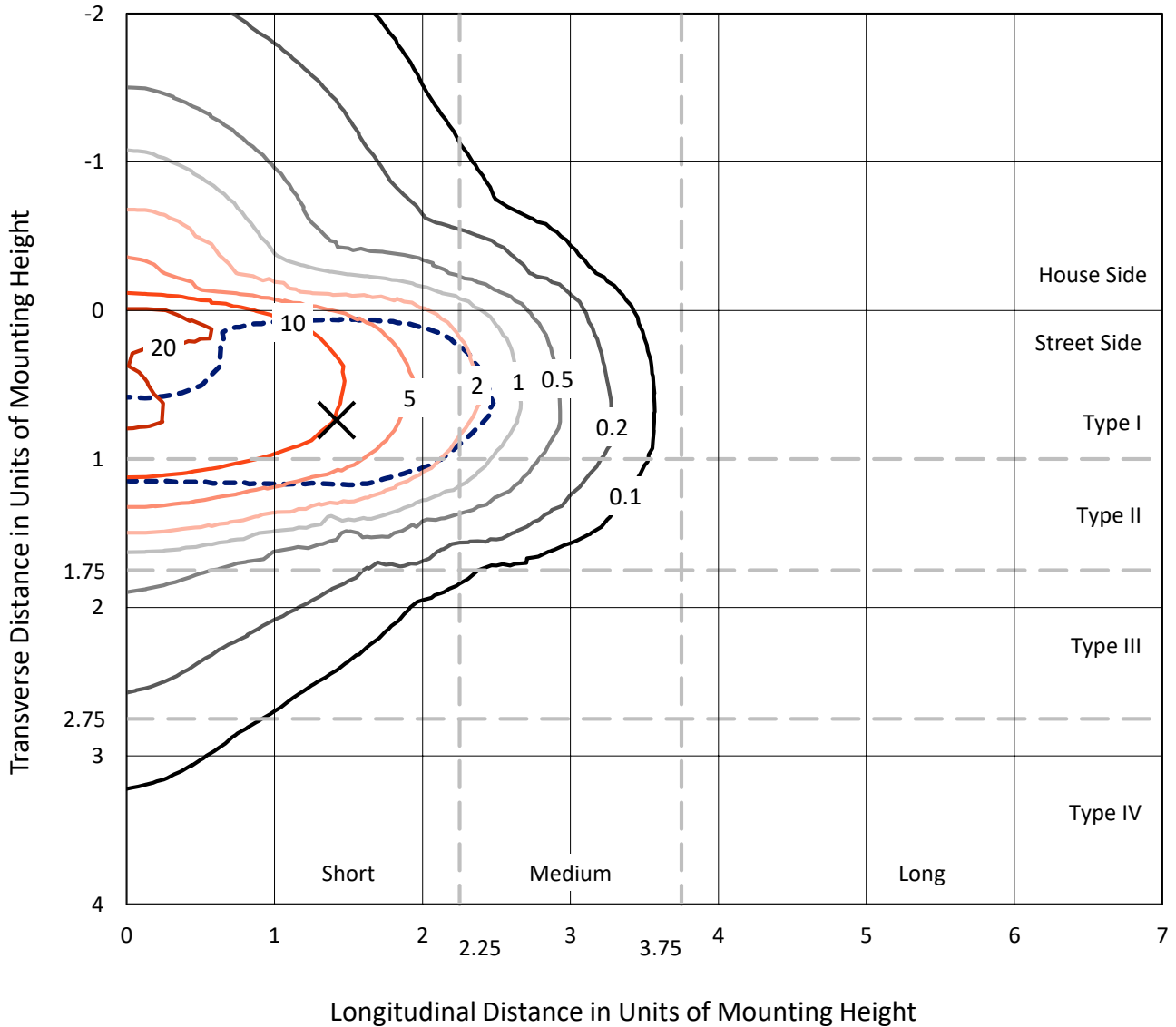
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

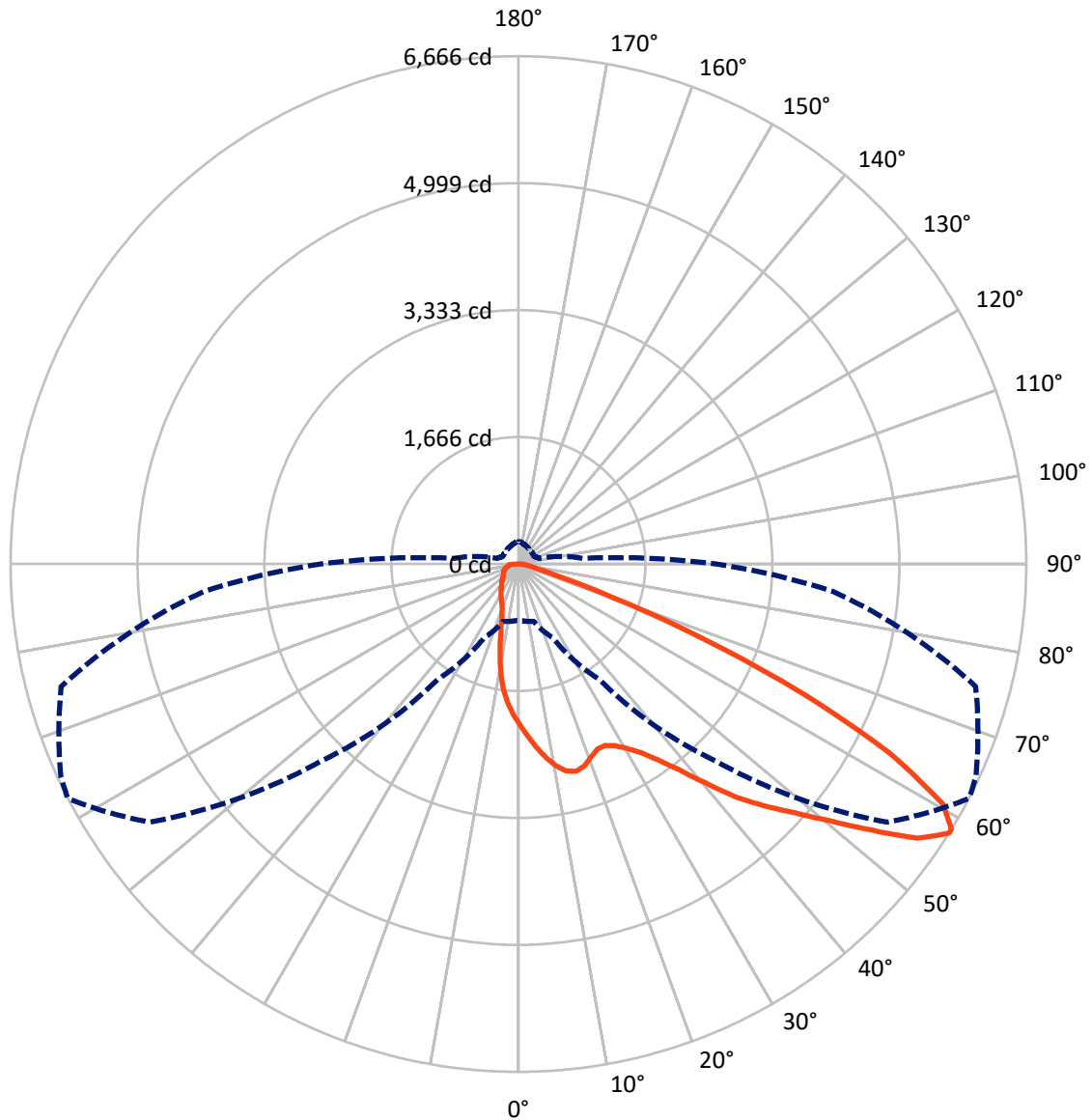
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1210.0	0.0	1210.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	6724.1	0.0	6724.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	7934.1	0.0	7934.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	2.4
10°-20°	481.8	6.1
20°-30°	778.9	9.8
30°-40°	1236.4	15.6
40°-50°	1809.1	22.8
50°-60°	1892.2	23.8
60°-70°	1117.9	14.1
70°-80°	314.9	4.0
80°-90°	114.3	1.4
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°	7934.1	100.0
0°-180°	7934.1	100.0



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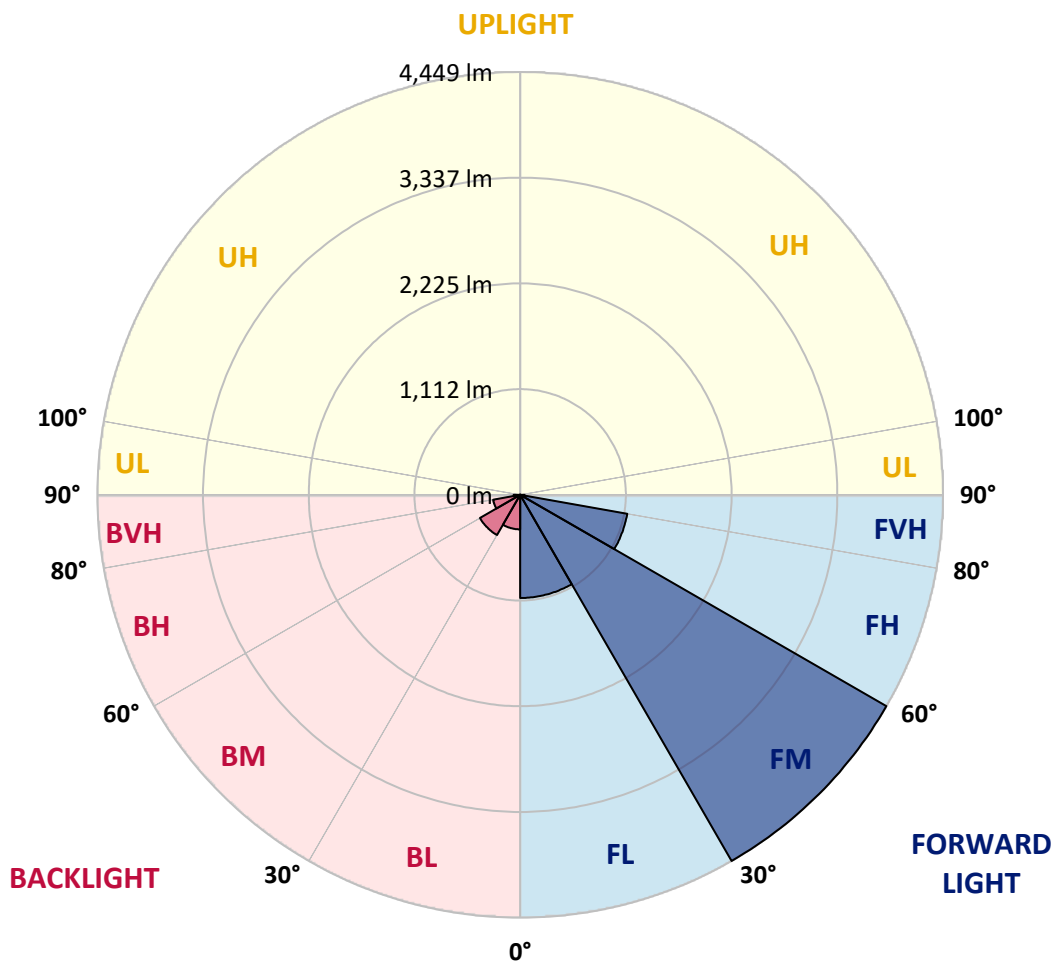
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.5	13.7			
FM	(30°-60°)	4449.4	56.1			
FH	(60°-80°)	1144.1	14.4			G1/1800
FVH	(80°-90°)	45.1	0.6			G1/100
BL	(0°-30°)	363.7	4.6	B1/500		
BM	(30°-60°)	488.4	6.2	B1/1000		
BH	(60°-80°)	288.7	3.6	B1/500		G1/500
BVH	(80°-90°)	69.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5
2.5°	2408.3	2388.9	2376.5	2365.7	2351.5	2321.2	2280.5	2254.7	2241.7	2197.2	2144.5
5°	2644.4	2627.2	2614.5	2600.0	2574.5	2527.1	2461.3	2409.0	2383.3	2294.3	2189.0
7.5°	2589.1	2596.2	2618.3	2656.7	2689.6	2683.3	2624.6	2558.1	2524.1	2400.4	2240.5
10°	2255.9	2268.2	2306.3	2396.3	2542.0	2691.5	2737.1	2691.1	2656.7	2505.4	2293.6
12.5°	2189.0	2188.6	2191.6	2215.5	2302.2	2512.5	2740.8	2787.1	2766.6	2605.6	2347.8
15°	2216.3	2217.0	2214.8	2224.8	2251.7	2335.1	2626.5	2824.1	2838.7	2706.4	2403.8
17.5°	2288.0	2286.1	2277.5	2277.5	2287.2	2319.7	2492.0	2789.7	2857.0	2795.7	2453.1
20°	2408.3	2399.7	2376.9	2356.0	2345.5	2363.1	2436.7	2710.5	2825.2	2873.8	2493.8
22.5°	2554.0	2547.3	2510.3	2465.5	2429.2	2428.8	2465.1	2641.4	2770.3	2947.4	2528.2
25°	2742.3	2731.5	2676.5	2604.8	2541.3	2517.0	2527.1	2638.1	2740.4	3027.4	2558.9
27.5°	2963.5	2943.7	2878.7	2775.2	2681.8	2632.8	2618.3	2699.0	2767.7	3126.4	2601.4
30°	3231.7	3208.9	3125.6	2990.7	2858.9	2778.5	2747.5	2806.9	2858.1	3247.0	2669.8
32.5°	3537.0	3504.1	3407.7	3259.0	3085.6	2963.1	2912.7	2949.7	2990.4	3392.4	2755.4
35°	3958.8	3919.5	3780.2	3575.1	3379.3	3210.8	3130.1	3157.0	3196.6	3609.1	2879.0
37.5°	4246.5	4228.9	4136.2	3943.5	3730.5	3536.6	3411.8	3427.5	3449.9	3879.9	3037.5
40°	4243.8	4250.9	4252.8	4254.7	4109.7	3924.0	3789.9	3773.5	3769.0	4177.3	3217.5
42.5°	4031.3	4060.4	4154.5	4345.5	4433.6	4348.4	4225.5	4178.1	4154.5	4527.8	3408.4
45°	3705.8	3721.5	3897.9	4270.7	4599.5	4768.8	4675.7	4526.3	4483.7	4849.8	3566.9
47.5°	3538.1	3555.3	3666.2	4072.7	4597.6	5108.4	5162.2	4877.5	4801.3	5130.0	3703.6
50°	3138.7	3174.6	3314.3	3728.3	4429.9	5264.5	5670.7	5295.9	5138.3	5402.8	3840.7
52.5°	2405.3	2460.6	2617.1	3161.9	4004.4	5187.2	6077.5	5803.3	5580.6	5685.2	3958.4
55°	1517.2	1558.3	1689.8	2233.1	3203.3	4784.8	6231.8	6352.1	6154.1	5952.7	4060.4
57.5°	824.9	843.2	892.6	1232.9	2083.6	3895.3	6006.9	6664.5	6582.3	6179.9	4137.4
58°	738.3	750.6	781.2	1068.5	1847.9	3652.0	5907.1	6665.6	6624.5	6213.1	4143.3
60°	547.7	541.4	514.1	609.7	1028.5	2523.0	5304.1	6398.8	6519.5	6253.9	4114.2
62.5°	481.2	465.9	410.2	403.9	500.3	1162.3	4058.5	5481.2	5766.3	6021.5	3937.1
65°	452.1	435.6	363.9	340.7	360.9	491.7	2390.7	4110.8	4468.4	5316.8	3484.3
67.5°	430.4	409.1	334.4	302.6	304.1	325.0	958.3	2589.1	2991.5	4036.9	2710.2
70°	409.5	386.3	309.3	272.7	264.1	257.0	381.1	1296.1	1661.1	2549.9	1727.9
72.5°	387.1	364.3	287.3	249.2	232.4	208.8	248.8	530.2	740.5	1206.4	783.8
75°	354.6	334.0	265.3	228.3	204.4	173.0	187.9	276.8	332.1	480.5	377.7
77.5°	314.6	297.8	240.6	211.1	181.2	140.5	144.6	192.0	213.0	275.0	224.5
80°	226.0	232.0	214.1	189.8	161.4	114.0	111.0	140.1	151.3	176.7	146.1
82.5°	158.8	162.1	177.1	155.0	133.4	89.7	81.8	98.6	105.4	116.2	78.8
85°	109.5	105.7	121.4	108.0	96.4	59.8	56.0	66.9	71.0	72.1	40.7
87.5°	65.8	65.8	70.2	57.9	51.9	31.0	30.3	38.1	40.7	38.9	22.4
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°	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5
2.5°	2113.1	2086.6	2030.2	1985.0	1927.8	1868.4	1835.2	1799.7	1775.4	1757.8	1785.9
5°	2129.2	2075.0	1958.5	1847.9	1725.7	1598.7	1502.3	1412.6	1350.2	1311.4	1348.0
7.5°	2154.6	2071.3	1885.6	1696.6	1477.3	1265.8	1076.7	958.3	889.2	855.2	876.5
10°	2183.8	2065.3	1800.1	1491.5	1177.6	911.2	770.0	722.2	706.5	700.1	703.1
12.5°	2208.0	2052.6	1695.1	1243.4	884.3	719.6	678.8	677.7	681.1	681.8	683.0
15°	2225.2	2033.9	1539.3	984.8	707.2	655.7	653.4	660.2	666.5	669.1	670.6
17.5°	2236.8	1995.5	1363.3	778.6	633.6	624.7	629.9	638.5	645.2	647.1	648.6
20°	2235.7	1939.0	1153.7	649.3	593.7	593.7	602.6	609.4	609.7	607.5	608.6
22.5°	2224.1	1861.7	950.5	580.6	558.2	564.5	573.5	567.1	541.0	523.8	524.9
25°	2204.7	1769.4	776.4	536.9	525.3	536.5	533.9	486.1	448.7	431.9	431.9
27.5°	2187.5	1660.3	642.6	498.8	492.4	506.2	459.9	416.6	400.9	393.0	390.4
30°	2175.2	1542.6	553.3	462.2	461.4	451.3	399.0	387.1	384.4	378.1	375.9
32.5°	2178.1	1423.5	496.2	430.0	432.6	386.3	369.9	372.5	370.2	363.5	360.5
35°	2202.8	1310.3	458.8	400.9	393.0	349.0	352.7	357.5	356.8	347.5	344.5
37.5°	2246.9	1203.0	434.1	376.6	343.0	330.3	336.2	343.7	341.9	335.5	333.3
40°	2293.2	1102.1	414.0	357.5	313.5	317.6	322.8	326.9	328.8	330.6	329.2
42.5°	2338.4	996.8	389.3	338.1	301.1	305.6	307.9	312.0	322.1	329.2	328.8
45°	2365.3	897.8	363.9	310.5	291.4	294.0	292.5	300.8	313.1	324.7	325.0
47.5°	2395.2	820.8	343.7	285.1	282.1	283.9	279.5	287.7	298.9	313.1	314.6
50°	2431.5	774.9	327.7	264.9	269.4	269.4	268.3	275.7	291.4	307.9	310.8
52.5°	2472.6	765.9	314.2	250.3	256.7	256.3	257.4	268.6	285.8	301.9	304.5
55°	2522.6	790.2	299.6	239.5	244.3	245.8	249.6	262.3	276.8	295.2	296.3
57.5°	2580.9	839.5	288.1	230.9	233.1	238.0	244.0	255.5	271.2	291.4	292.5
58°	2590.6	850.0	286.2	230.1	230.9	236.5	243.2	254.4	270.1	292.2	293.3
60°	2591.0	884.7	282.1	226.8	222.3	231.6	239.1	250.3	268.3	294.8	297.4
62.5°	2499.1	884.3	279.1	221.9	213.3	224.9	233.5	246.6	266.4	301.1	306.4
65°	2200.6	803.6	264.9	214.5	206.2	218.9	228.6	244.0	271.6	328.8	332.1
67.5°	1721.2	658.7	238.4	204.0	196.9	213.0	225.7	243.6	277.2	335.1	337.4
70°	1138.0	492.8	209.2	192.0	187.2	205.9	227.2	256.3	270.9	321.7	315.7
72.5°	590.7	346.0	185.7	177.1	176.0	199.5	248.8	254.8	264.5	302.6	295.2
75°	310.1	240.2	165.1	160.7	162.5	198.0	293.7	248.1	256.3	289.5	303.7
77.5°	189.8	193.9	147.6	145.7	149.4	193.5	293.3	239.5	244.3	266.4	282.1
80°	127.0	157.3	134.1	134.5	137.1	177.1	263.4	226.0	229.8	251.8	267.9
82.5°	80.3	93.0	121.8	128.1	124.8	146.1	223.8	205.9	211.1	288.1	304.5
85°	40.7	58.3	105.7	123.3	112.5	102.4	181.6	180.5	183.1	207.7	217.1
87.5°	18.7	32.1	82.6	107.6	84.8	63.9	131.9	133.8	144.2	147.6	147.6
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)