

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: P302889

Luminaire Tested: **GLNA-AF-02-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
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-T4W-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7679.8 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
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

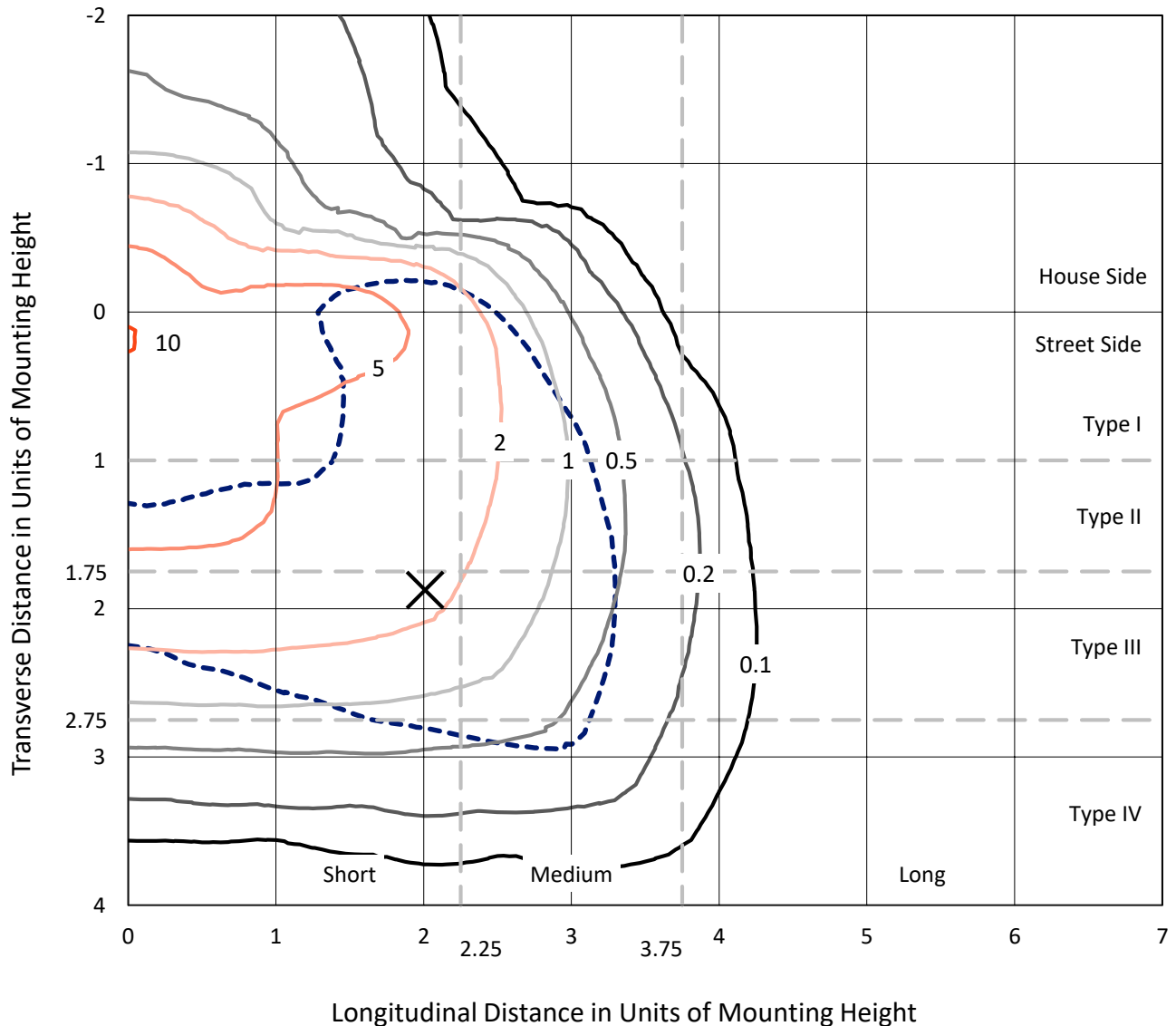


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### Iso-Footcandle Lines of Horizontal Illumination

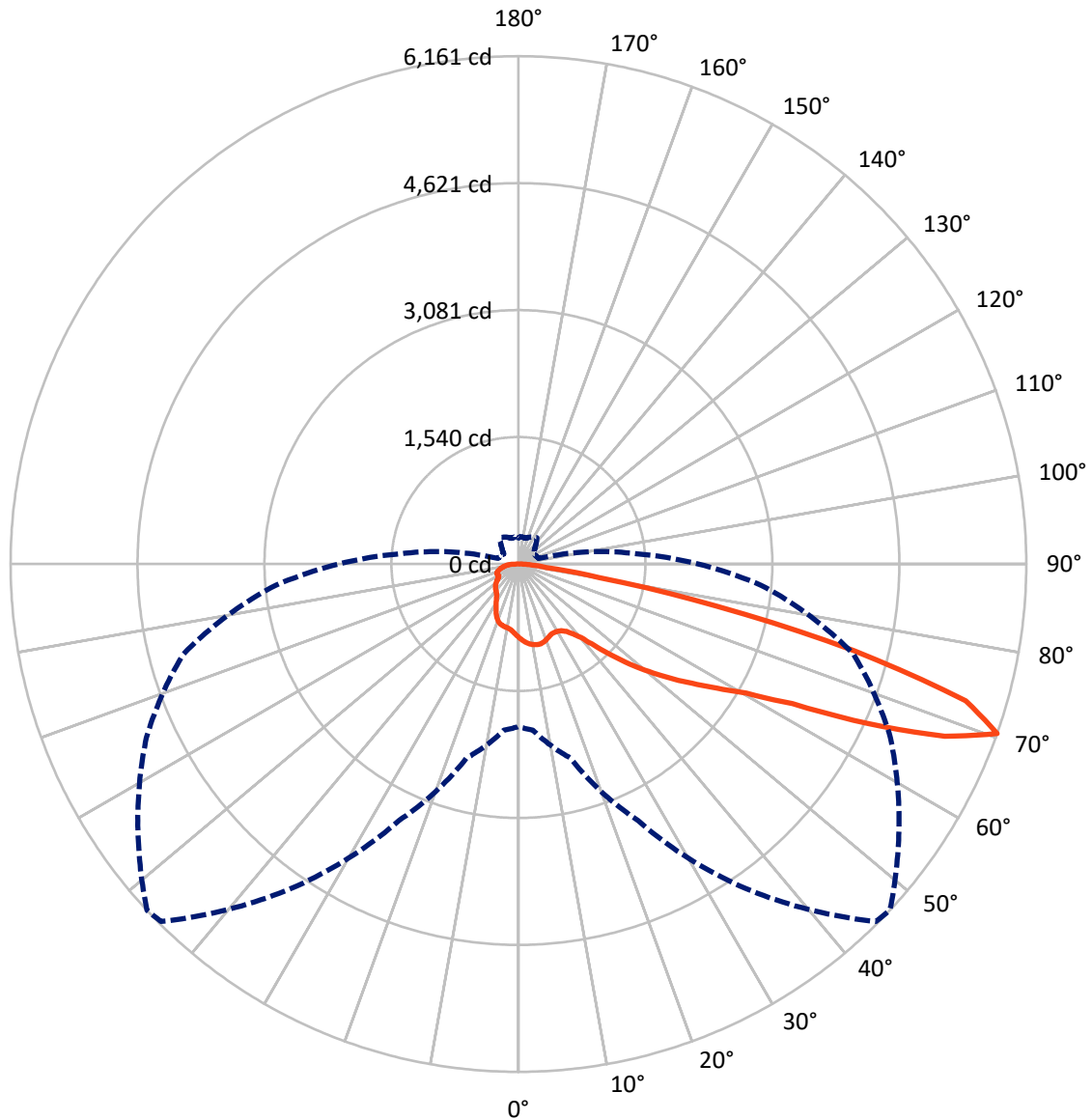
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1602.2	0.0	1602.2
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	6077.6	0.0	6077.6
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	7679.8	0.0	7679.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	1.1
10°-20°	250.5	3.3
20°-30°	369.9	4.8
30°-40°	537.6	7.0
40°-50°	967.6	12.6
50°-60°	1676.2	21.8
60°-70°	2392.5	31.2
70°-80°	1228.2	16.0
80°-90°	171.9	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°	7679.8	100.0
0°-180°	7679.8	100.0



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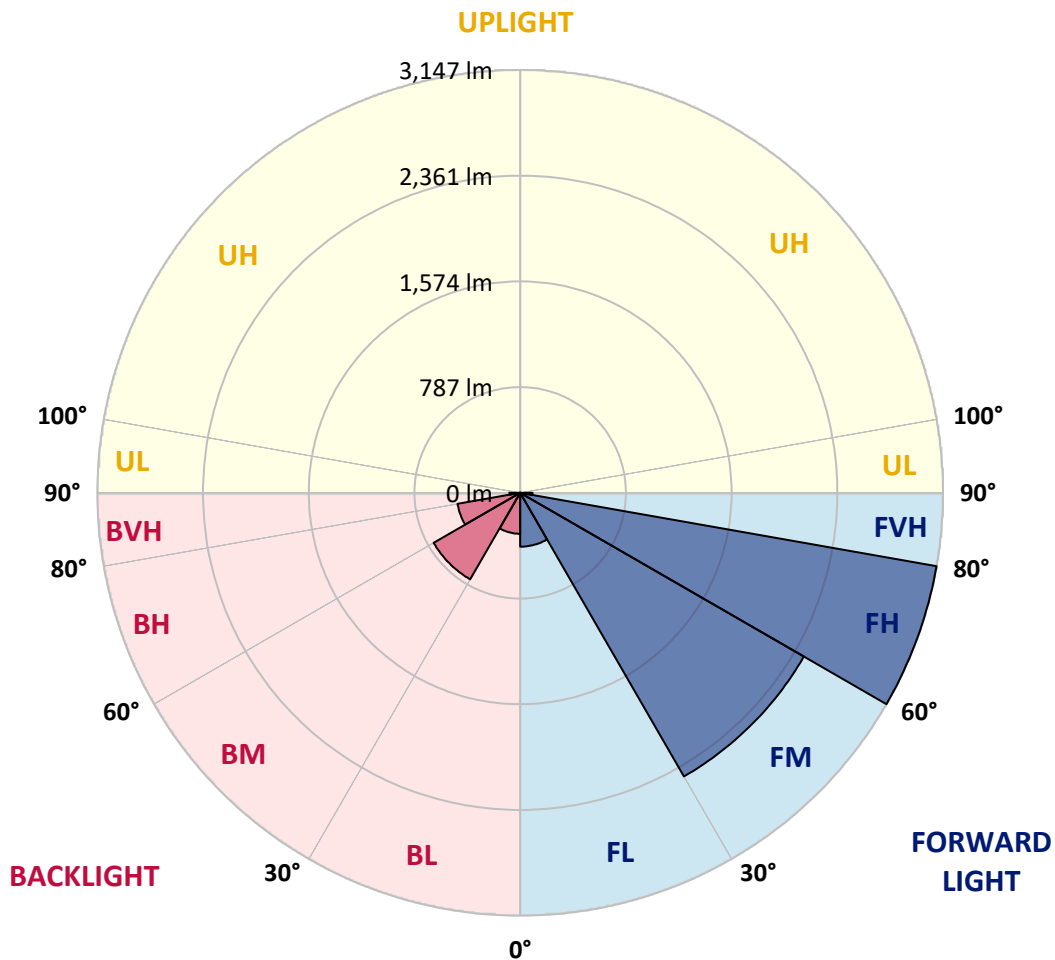
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.7	5.2			
FM	(30°-60°)	2437.8	31.7			
FH	(60°-80°)	3147.4	41.0			G2/5000
FVH	(80°-90°)	91.7	1.2			G1/100
BL	(0°-30°)	305.1	4.0	B1/500		
BM	(30°-60°)	743.7	9.7	B1/1000		
BH	(60°-80°)	473.2	6.2	B1/500		G1/500
BVH	(80°-90°)	80.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1
2.5°	943.4	941.6	940.8	939.3	937.5	928.1	926.2	919.5	910.2	900.4	890.3
5°	1005.5	1005.1	1000.9	993.4	981.5	960.9	956.1	939.7	917.6	896.3	875.1
7.5°	1060.0	1056.6	1048.8	1033.8	1012.9	984.9	978.2	955.4	925.1	895.9	867.1
10°	1099.9	1098.1	1080.9	1060.3	1033.0	1002.0	994.2	968.8	935.5	898.5	862.7
12.5°	1122.7	1119.0	1099.2	1074.6	1042.1	1011.8	1003.9	978.2	940.8	898.5	856.3
15°	1121.3	1118.6	1098.8	1071.9	1039.1	1012.6	1005.5	979.7	939.7	894.8	848.1
17.5°	1091.4	1092.5	1075.7	1049.2	1022.2	1002.0	995.7	971.9	932.1	887.4	838.5
20°	1039.1	1044.3	1033.0	1009.6	994.6	980.8	976.7	956.5	920.6	876.6	827.9
22.5°	986.7	991.6	987.1	967.3	965.0	956.8	954.6	940.1	910.6	869.9	821.6
25°	948.3	952.7	952.0	934.8	941.6	941.2	939.3	932.1	908.3	869.9	822.7
27.5°	937.9	939.3	937.9	922.1	931.4	939.0	937.5	936.2	915.0	880.6	837.0
30°	973.7	971.5	959.8	928.1	936.7	947.2	945.7	946.4	935.1	909.1	868.7
32.5°	1116.8	1106.6	1070.0	980.8	958.0	963.5	964.3	976.7	978.6	952.7	918.0
35°	1330.8	1319.7	1272.1	1122.0	1024.1	1004.7	1004.7	1023.4	1034.5	1015.5	994.6
37.5°	1557.7	1545.3	1519.9	1317.8	1163.1	1076.1	1074.2	1087.3	1103.3	1107.9	1113.1
40°	1815.4	1802.4	1809.4	1537.4	1357.0	1199.7	1173.1	1163.8	1207.1	1235.9	1277.9
42.5°	2097.6	2091.5	2094.1	1782.1	1577.8	1384.7	1347.0	1298.7	1351.1	1402.2	1490.0
45°	2358.7	2363.9	2361.3	2044.1	1823.7	1610.3	1570.3	1476.9	1528.1	1615.9	1759.1
47.5°	2587.4	2565.6	2599.3	2330.2	2099.1	1862.9	1813.5	1688.5	1740.3	1848.7	2090.8
50°	2864.9	2862.0	2812.7	2712.2	2431.9	2116.6	2051.9	1907.0	1987.6	2138.3	2508.9
52.5°	3156.8	3102.6	3057.4	3009.1	2785.0	2376.6	2297.4	2124.8	2278.4	2467.7	3018.6
55°	3216.5	3192.3	3248.2	3329.4	3125.4	2646.8	2554.5	2397.9	2605.7	2844.5	3606.2
57.5°	3344.3	3343.9	3459.8	3604.4	3475.8	2933.3	2840.2	2727.8	2973.6	3275.9	4230.1
60°	3430.6	3454.8	3670.1	3950.7	3819.9	3264.4	3178.8	3108.5	3392.2	3758.2	4811.5
62.5°	3475.8	3508.7	3802.4	4091.2	4306.3	3815.4	3729.9	3628.7	3945.9	4287.4	5151.5
65°	3287.9	3352.5	3781.8	4212.6	4732.3	4708.8	4670.3	4492.5	4638.1	4705.4	5028.6
67.5°	2767.8	2833.9	3333.9	4099.4	5036.5	5570.4	5578.6	5274.8	5064.1	4741.3	4227.9
70°	1972.0	2023.9	2437.6	3437.0	4804.8	6133.4	6161.4	5635.3	4979.3	4204.7	2953.9
72.5°	936.2	968.0	1359.6	2236.9	3812.8	5619.7	5673.9	5175.1	4233.9	3113.0	1611.4
75°	344.1	353.8	459.5	951.6	2211.5	4144.3	4208.2	3709.7	2806.6	1549.9	613.9
77.5°	206.2	212.6	257.9	401.7	869.9	2368.8	2463.3	2017.5	1226.6	576.9	301.9
80°	144.2	148.7	184.9	249.9	411.0	902.7	986.7	823.4	488.7	365.1	219.6
82.5°	97.5	99.8	130.0	168.9	273.1	322.4	347.8	366.2	329.6	271.6	139.4
85°	63.9	66.1	88.2	111.3	173.7	166.6	170.4	215.5	240.6	184.5	77.3
87.5°	36.6	38.1	53.1	59.4	85.2	70.6	71.4	113.5	154.0	124.5	47.0
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°	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1
2.5°	887.7	882.9	872.1	865.3	858.9	857.4	854.8	854.5	854.1	854.1	853.0
5°	867.9	859.7	842.9	833.5	825.7	824.9	824.6	826.4	827.2	827.9	826.8
7.5°	855.2	844.0	823.1	809.7	800.4	798.0	801.9	810.4	816.0	818.2	817.1
10°	847.4	833.5	809.3	794.7	786.8	785.7	790.6	800.7	812.3	816.7	816.4
12.5°	838.5	822.7	796.9	781.6	777.2	779.4	785.7	795.0	807.1	814.1	814.5
15°	829.4	811.2	784.6	771.2	769.3	772.3	778.3	785.4	794.7	801.9	802.6
17.5°	818.6	799.5	773.1	759.2	757.7	759.2	759.5	763.3	769.3	776.0	777.9
20°	807.1	787.6	759.9	746.1	739.4	733.5	726.7	727.4	729.3	736.1	737.6
22.5°	798.8	779.4	749.9	730.8	712.9	694.9	681.5	679.6	680.4	686.0	687.8
25°	799.5	779.0	747.3	714.4	675.2	646.4	628.4	625.4	625.0	629.1	631.9
27.5°	814.1	793.5	756.9	697.5	634.1	591.4	572.4	570.2	567.2	568.3	571.3
30°	846.6	827.5	780.5	680.4	589.5	537.7	517.8	515.6	511.5	509.6	511.9
32.5°	899.6	884.0	814.9	663.9	545.1	491.6	471.5	466.7	464.1	461.9	463.7
35°	987.9	981.2	860.8	646.0	505.9	456.1	437.9	430.5	426.7	430.8	433.8
37.5°	1126.1	1129.8	921.0	618.0	475.6	432.7	417.3	408.7	403.2	406.5	409.9
40°	1321.9	1324.5	987.5	578.4	449.4	418.8	402.4	394.6	386.7	380.7	380.3
42.5°	1578.9	1552.5	1052.9	535.4	419.2	410.2	392.0	382.2	370.3	353.8	350.4
45°	1883.8	1790.8	1102.5	486.1	385.2	399.8	380.3	366.9	348.2	330.3	328.5
47.5°	2235.1	2046.7	1126.8	434.9	353.4	384.4	366.2	344.8	321.3	312.3	311.2
50°	2663.9	2350.5	1138.4	385.2	325.9	364.3	345.6	320.5	300.8	298.9	297.8
52.5°	3152.3	2715.9	1142.2	344.5	303.0	338.1	328.8	304.5	288.8	290.4	290.4
55°	3663.4	3093.3	1091.4	314.9	282.1	311.2	317.5	298.2	285.0	291.1	293.3
57.5°	4132.6	3427.7	931.4	292.2	262.3	290.7	313.4	304.1	295.2	319.4	320.9
60°	4492.8	3625.2	695.6	271.6	247.7	283.5	324.4	327.0	329.2	387.0	395.0
62.5°	4568.3	3559.6	478.2	255.6	241.0	289.6	344.1	344.5	341.9	382.2	387.0
65°	4222.0	3143.6	347.8	246.6	235.4	300.4	361.0	353.0	335.9	366.6	357.5
67.5°	3352.8	2368.5	289.6	239.9	227.2	299.7	378.8	361.0	332.6	359.1	344.5
70°	2176.4	1432.1	257.9	234.3	217.4	285.4	389.3	360.2	322.8	334.0	316.8
72.5°	1061.8	640.4	236.5	226.1	207.4	265.7	388.9	353.4	312.7	312.0	302.6
75°	415.4	293.3	217.0	213.7	190.2	243.2	378.5	343.7	300.8	288.8	285.4
77.5°	243.2	209.2	192.5	195.4	169.6	220.8	363.2	327.0	284.3	270.1	266.4
80°	177.1	156.6	164.0	168.9	144.9	198.4	342.6	306.4	266.0	273.1	267.9
82.5°	113.5	100.9	133.0	137.9	120.7	175.6	320.1	284.7	240.2	218.1	212.9
85°	57.9	63.9	99.0	105.0	93.1	144.2	293.0	256.0	211.1	181.5	184.5
87.5°	32.5	43.7	63.2	70.6	65.8	110.9	237.6	211.1	172.2	140.1	123.3
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)