

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: P299096

Luminaire Tested: **GLNA-AF-01-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-T3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6008.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

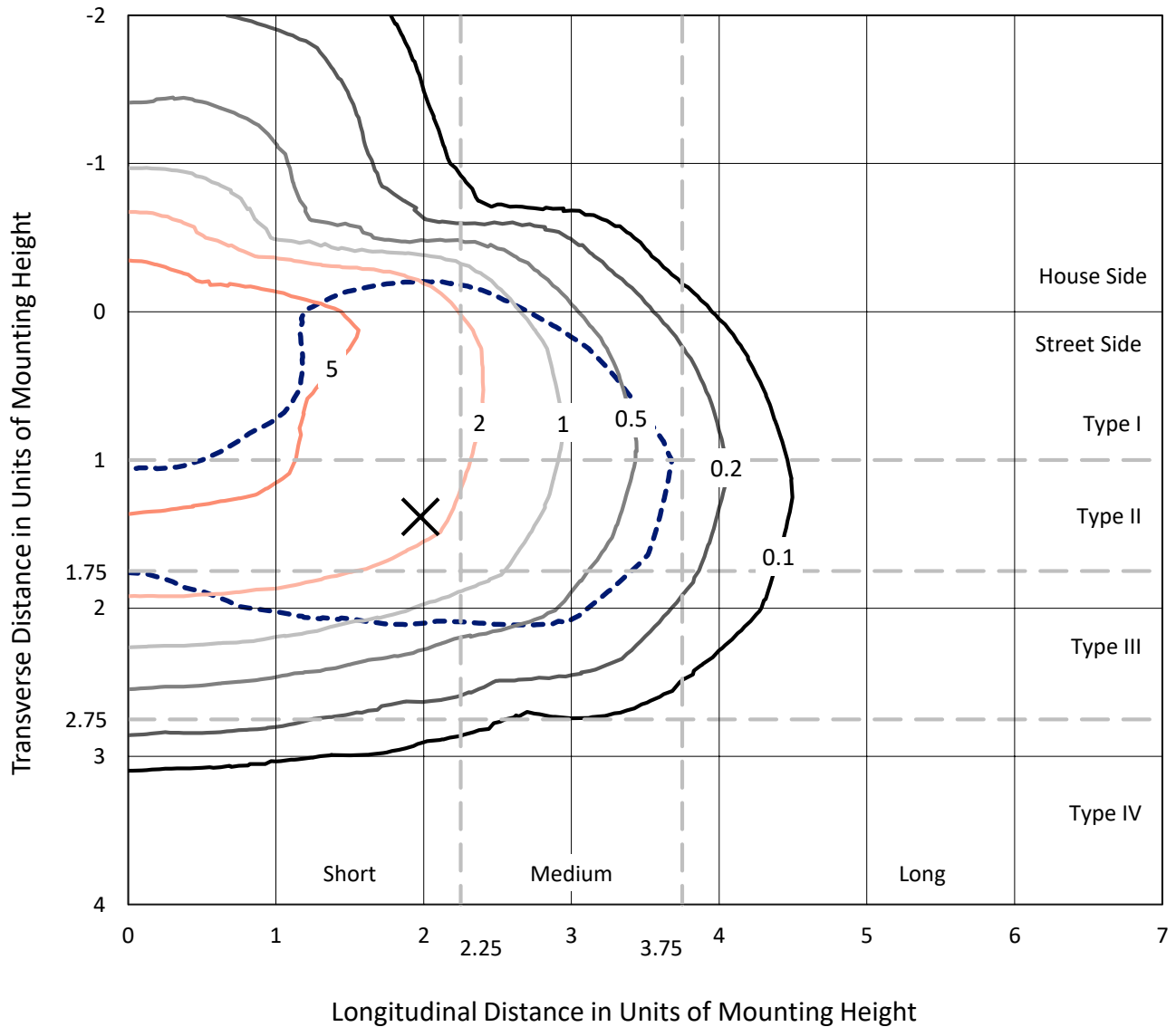
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

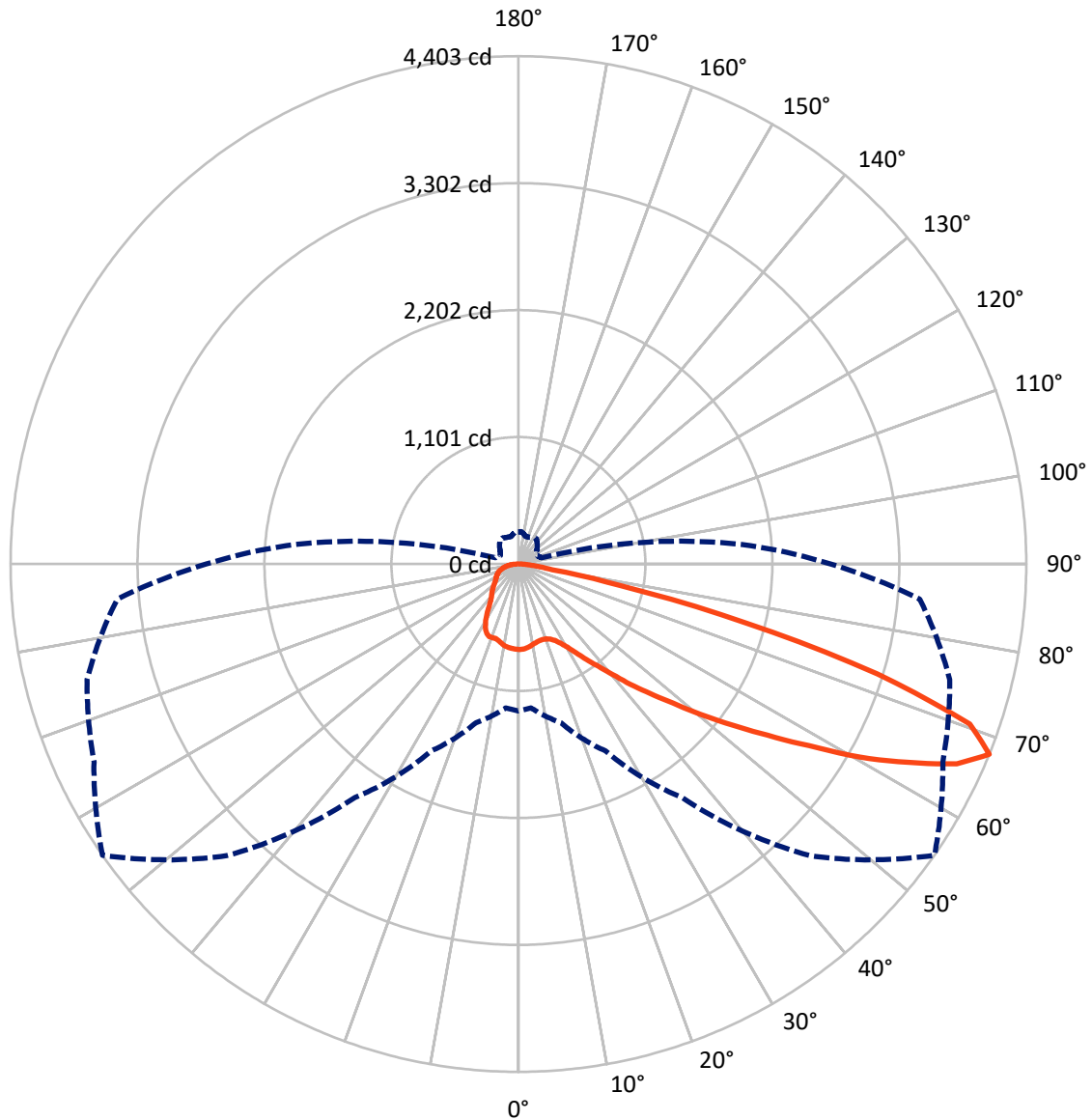
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1298.1	0.0	1298.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4710.9	0.0	4710.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	6008.9	0.0	6008.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.2
10°-20°	195.9	3.3
20°-30°	328.1	5.5
30°-40°	539.6	9.0
40°-50°	908.3	15.1
50°-60°	1429.5	23.8
60°-70°	1706.0	28.4
70°-80°	732.6	12.2
80°-90°	99.9	1.7
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°	6008.9	100.0
0°-180°	6008.9	100.0



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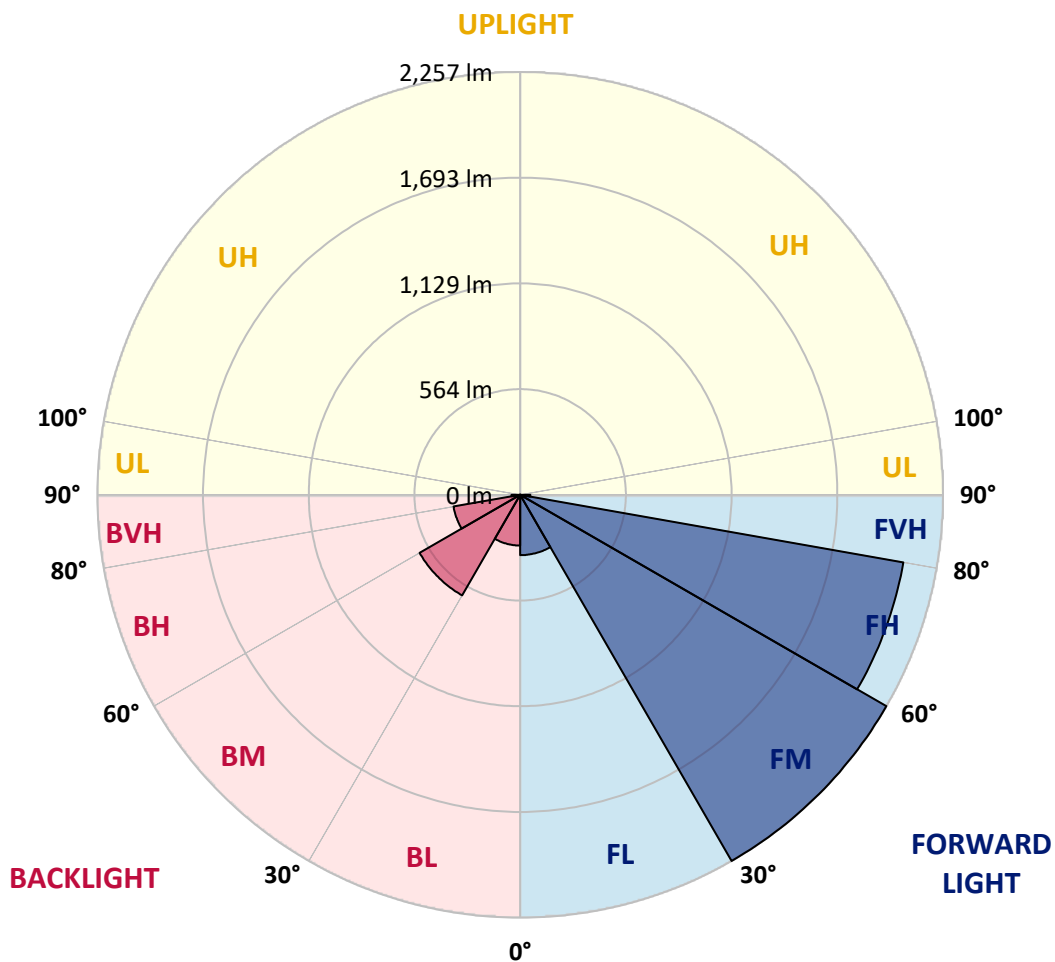
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.1	5.4			
FM	(30°-60°)	2257.4	37.6			
FH	(60°-80°)	2077.3	34.6			G2/5000
FVH	(80°-90°)	54.1	0.9			G1/100
BL	(0°-30°)	271.1	4.5	B1/500		
BM	(30°-60°)	619.9	10.3	B1/1000		
BH	(60°-80°)	361.2	6.0	B1/500		G1/500
BVH	(80°-90°)	45.8	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
2.5°	734.6	734.9	735.5	737.8	739.8	739.2	739.5	738.4	738.1	736.3	738.1
5°	725.3	726.2	726.5	730.2	732.6	733.1	732.3	730.8	729.1	727.3	728.2
7.5°	704.1	706.4	706.7	711.9	715.7	720.7	720.9	721.2	720.4	719.2	720.9
10°	690.8	691.3	691.0	694.8	697.7	703.2	706.4	711.9	714.3	714.8	716.0
12.5°	689.9	689.3	688.4	688.4	687.6	689.9	695.7	703.5	709.0	710.8	712.2
15°	699.2	698.9	696.0	691.6	686.1	684.4	689.3	698.0	705.3	709.0	710.5
17.5°	720.1	718.3	713.7	703.8	691.9	687.3	687.9	695.1	703.5	708.5	709.9
20°	758.4	758.4	748.5	729.9	708.8	697.7	692.5	696.9	705.0	711.7	713.7
22.5°	824.6	825.1	808.6	778.1	742.4	718.9	705.8	705.0	714.6	722.1	724.4
25°	918.3	916.0	892.8	849.2	795.0	756.1	733.4	728.2	736.3	744.7	747.6
27.5°	1027.4	1019.0	991.4	938.9	868.7	811.8	777.0	768.5	776.4	786.0	788.9
30°	1135.4	1126.7	1093.9	1036.4	958.4	886.4	836.5	822.8	833.8	847.5	849.2
32.5°	1243.4	1243.4	1206.8	1139.7	1054.7	975.5	915.7	899.4	917.7	934.3	938.0
35°	1372.5	1373.1	1337.7	1257.0	1165.6	1081.7	1015.8	1003.9	1031.5	1043.1	1052.1
37.5°	1531.3	1534.5	1488.9	1391.4	1291.3	1203.0	1124.7	1108.4	1136.0	1167.6	1196.6
40°	1702.8	1706.9	1656.7	1536.5	1436.4	1344.1	1259.3	1230.0	1275.9	1336.2	1373.7
42.5°	1866.5	1887.4	1838.9	1715.3	1607.6	1512.1	1426.2	1383.5	1441.0	1532.1	1564.7
45°	2103.0	2118.1	2033.7	1921.6	1820.3	1713.5	1599.8	1554.8	1635.2	1750.1	1756.8
47.5°	2260.6	2249.3	2206.4	2136.7	2072.6	1972.7	1801.5	1752.1	1858.9	1994.2	1956.8
50°	2344.5	2348.0	2342.2	2346.3	2348.6	2285.9	2048.8	1981.1	2108.5	2272.0	2185.8
52.5°	2422.9	2399.7	2418.8	2514.0	2628.9	2605.7	2317.8	2247.3	2376.1	2580.2	2427.8
55°	2421.1	2385.7	2448.1	2616.2	2865.5	2892.2	2619.9	2538.7	2659.1	2910.8	2684.4
57.5°	2335.5	2337.3	2433.3	2653.3	3030.3	3161.5	2970.5	2848.6	2959.2	3245.7	2918.6
60°	2217.7	2233.6	2372.1	2647.2	3162.4	3382.4	3400.7	3182.7	3253.2	3550.1	3112.5
62.5°	2027.6	2044.4	2235.4	2584.0	3142.4	3595.1	3789.6	3561.8	3560.6	3734.7	3169.4
65°	1727.8	1722.8	1923.4	2347.4	2974.3	3752.4	4175.9	3889.4	3792.2	3737.6	3055.0
67.5°	1274.1	1252.1	1424.2	1787.8	2472.2	3576.3	4403.1	4060.1	3871.1	3491.8	2705.6
70°	661.2	639.1	778.4	1044.0	1625.9	2791.2	4151.5	3971.9	3696.7	2927.0	2119.6
72.5°	282.7	278.9	335.5	458.0	786.5	1609.9	3255.3	3437.8	3172.0	2180.8	1457.3
75°	190.1	188.9	210.1	249.6	353.8	653.3	2037.2	2440.3	2320.7	1352.2	819.6
77.5°	149.2	147.7	160.2	179.4	229.3	257.7	904.1	1310.1	1212.6	588.6	358.7
80°	116.7	115.5	123.3	133.8	164.9	162.5	297.5	521.3	403.4	225.5	174.4
82.5°	92.0	92.0	98.4	98.7	117.0	110.9	155.3	229.6	201.4	131.5	106.8
85°	84.2	84.2	90.8	73.7	76.3	69.9	96.4	136.1	127.7	54.0	46.4
87.5°	42.4	41.2	76.3	65.3	41.5	37.1	47.0	65.9	70.8	29.9	23.2
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°	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
2.5°	737.5	737.2	737.8	738.1	740.4	743.6	745.0	747.1	748.2	747.6
5°	728.8	729.4	731.7	733.4	737.5	742.7	745.6	747.9	750.0	749.1
7.5°	721.5	723.0	726.5	727.9	730.2	731.7	731.4	732.3	734.0	732.0
10°	717.5	719.2	721.8	719.8	714.3	706.4	699.2	695.4	696.6	695.1
12.5°	713.4	715.7	713.7	704.1	688.7	678.6	673.1	673.6	676.2	676.8
15°	711.1	711.9	703.2	685.2	669.6	668.1	671.0	670.4	670.7	670.7
17.5°	711.1	708.8	692.5	674.5	667.8	665.2	656.2	644.9	640.0	638.2
20°	714.8	708.8	689.0	677.1	662.6	640.3	616.5	595.6	586.3	583.7
22.5°	726.2	715.7	698.9	678.3	637.1	599.6	561.9	536.9	520.1	517.2
25°	749.1	737.5	718.3	662.9	596.4	543.0	500.1	472.2	455.4	453.1
27.5°	789.1	781.6	728.8	628.9	542.4	485.3	445.5	424.0	411.6	410.7
30°	849.5	845.7	723.6	578.7	476.0	429.3	410.1	397.6	388.3	388.0
32.5°	945.9	915.4	706.4	517.5	415.3	389.5	381.7	374.1	366.9	366.9
35°	1069.8	971.7	673.9	451.9	378.5	367.4	357.6	345.7	336.1	335.5
37.5°	1215.5	1006.5	615.6	399.1	361.1	352.6	338.1	320.4	303.6	300.7
40°	1362.6	1017.0	533.4	366.6	350.0	337.8	320.1	299.2	283.0	282.1
42.5°	1497.6	997.0	446.4	344.2	339.0	322.7	304.2	285.6	272.8	272.5
45°	1610.8	945.0	373.2	323.0	327.4	309.1	292.6	277.5	267.6	265.6
47.5°	1717.3	871.6	321.9	300.7	315.8	301.6	287.6	273.4	263.8	262.4
50°	1841.0	792.3	285.9	278.9	305.6	298.9	291.7	276.9	260.9	259.2
52.5°	1990.7	723.8	257.7	259.8	297.8	302.4	302.1	286.8	258.9	256.6
55°	2157.9	647.8	236.5	244.1	294.6	308.8	304.7	296.0	260.6	257.1
57.5°	2322.5	559.0	221.7	232.2	289.9	308.2	292.3	279.8	264.7	259.8
60°	2445.8	439.7	210.4	221.7	279.8	298.7	278.6	262.1	263.8	260.0
62.5°	2453.9	339.9	196.8	212.7	264.4	289.1	269.6	254.2	267.6	264.1
65°	2309.7	256.9	183.7	202.0	247.9	283.0	260.9	249.9	275.4	271.7
67.5°	1944.6	206.6	172.7	191.0	231.3	270.2	253.1	245.8	282.4	275.7
70°	1403.9	176.2	162.0	177.6	216.5	255.7	246.1	238.6	263.5	253.1
72.5°	864.3	152.7	149.8	159.9	205.2	240.6	235.7	224.9	237.4	229.0
75°	431.6	132.3	136.1	142.5	189.2	223.5	218.3	207.5	209.3	207.5
77.5°	206.6	113.2	120.2	125.1	168.6	204.0	198.5	187.5	185.5	185.7
80°	130.9	94.6	101.3	104.8	150.6	181.4	175.9	164.9	188.1	174.4
82.5°	81.8	76.9	78.7	85.0	131.2	157.9	150.6	140.8	169.5	134.1
85°	45.3	53.7	56.0	61.5	101.0	132.1	124.8	112.3	100.7	99.0
87.5°	27.0	31.9	32.8	36.9	67.9	95.5	84.5	80.1	66.5	66.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)