

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: P299156

Luminaire Tested: **GLNA-AF-01-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299156
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-T3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.5 lumens
Efficiency: N/A
Efficacy: 110.3 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 - G1

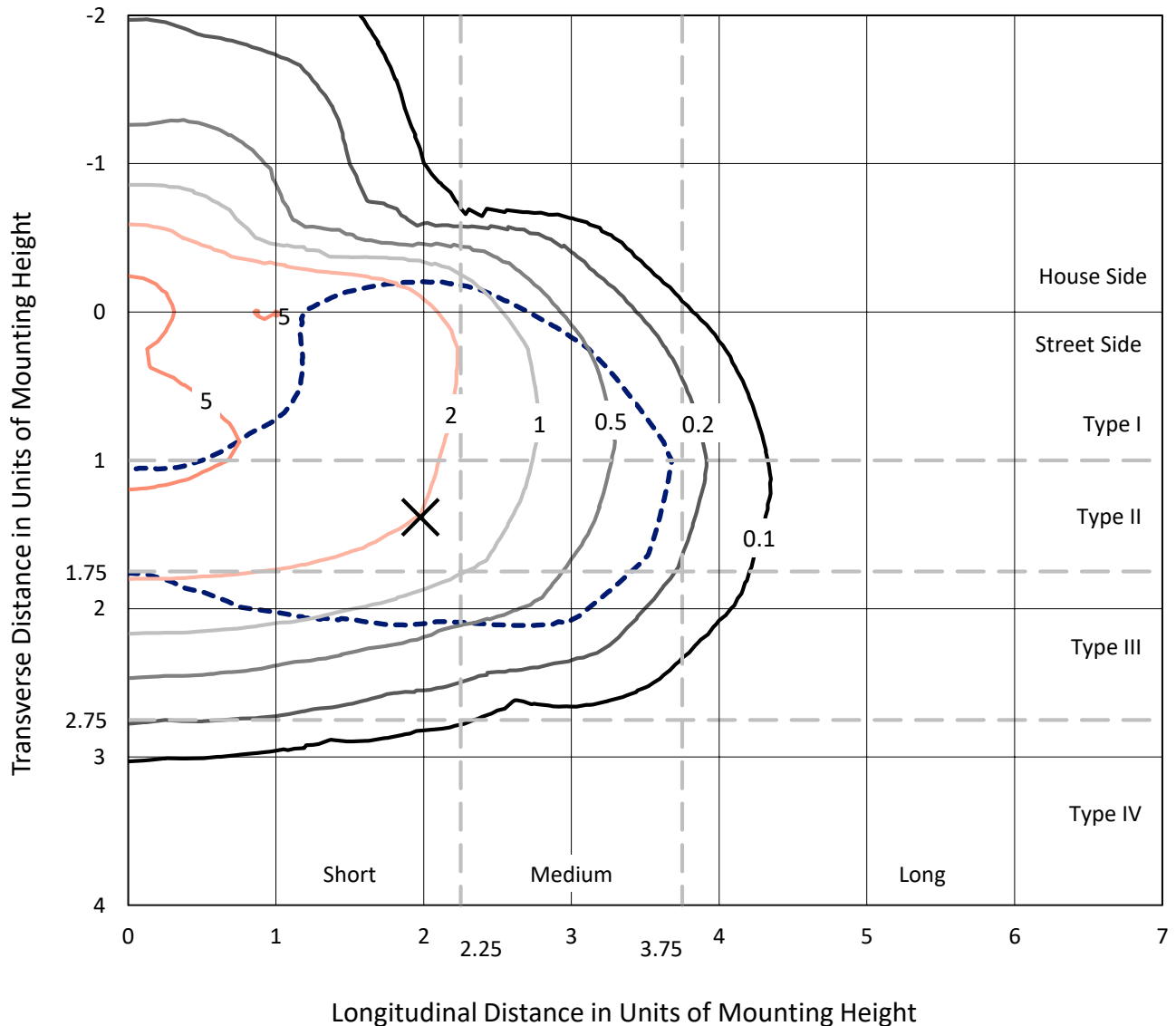
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

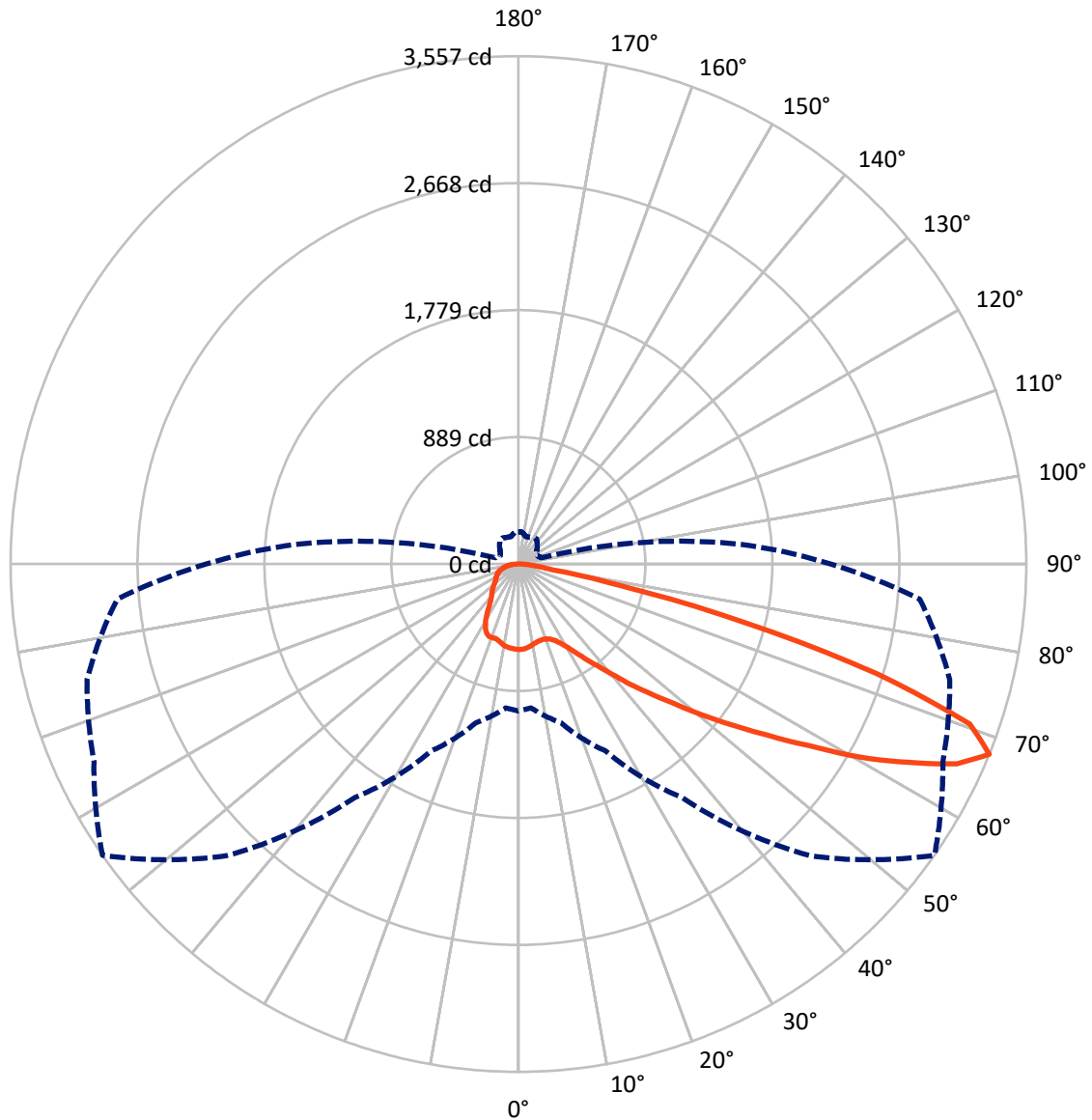
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	1048.7	0.0	1048.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3805.8	0.0	3805.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	4854.5	0.0	4854.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.2
10°-20°	158.2	3.3
20°-30°	265.1	5.5
30°-40°	435.9	9.0
40°-50°	733.8	15.1
50°-60°	1154.9	23.8
60°-70°	1378.2	28.4
70°-80°	591.8	12.2
80°-90°	80.7	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°	4854.5	100.0
0°-180°	4854.5	100.0



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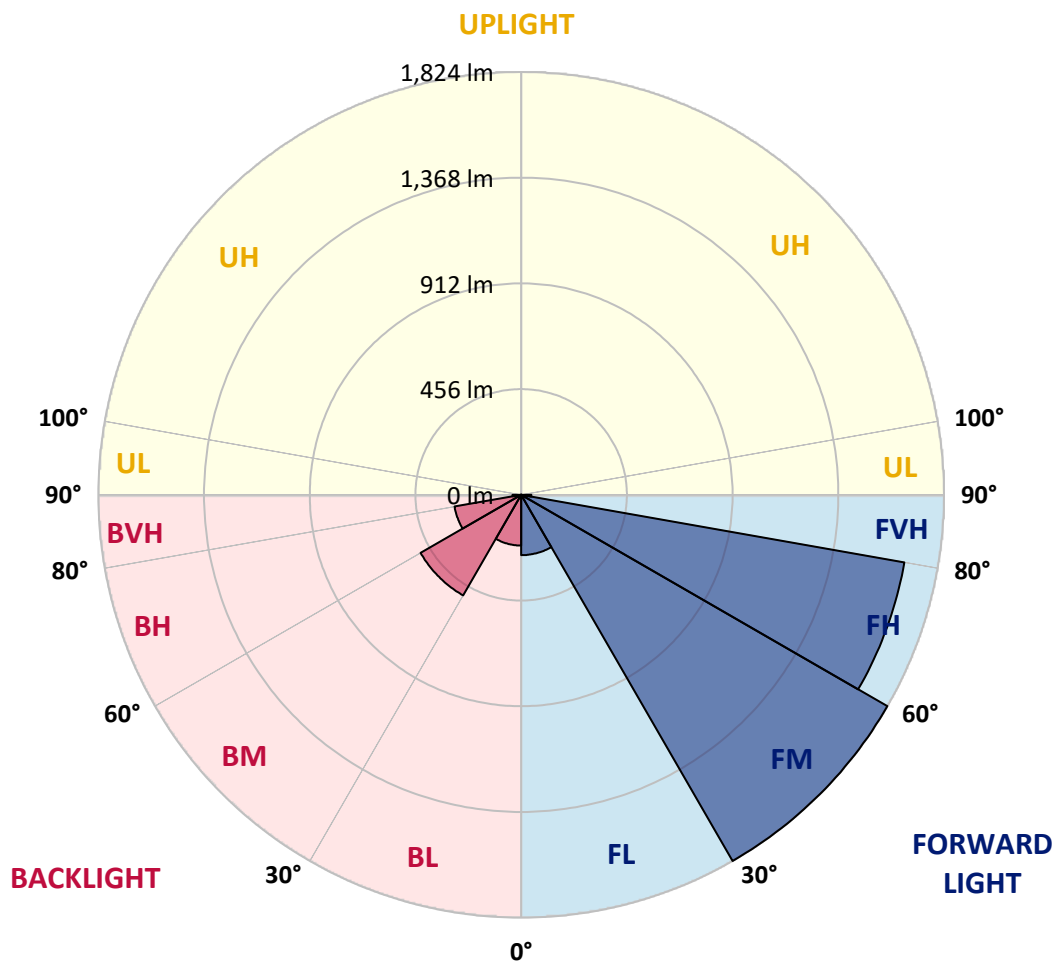
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.2	5.4			
FM	(30°-60°)	1823.7	37.6			
FH	(60°-80°)	1678.2	34.6			G1/1800
FVH	(80°-90°)	43.7	0.9			G1/100
BL	(0°-30°)	219.0	4.5	B1/500		
BM	(30°-60°)	500.8	10.3	B1/1000		
BH	(60°-80°)	291.8	6.0	B1/500		G1/500
BVH	(80°-90°)	37.0	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6
2.5°	593.5	593.7	594.2	596.0	597.7	597.2	597.4	596.5	596.3	594.9	596.3
5°	586.0	586.7	586.9	589.9	591.8	592.3	591.6	590.4	589.0	587.6	588.3
7.5°	568.8	570.7	570.9	575.2	578.2	582.2	582.4	582.7	582.0	581.0	582.4
10°	558.0	558.5	558.3	561.3	563.7	568.1	570.7	575.2	577.0	577.5	578.4
12.5°	557.3	556.9	556.2	556.2	555.5	557.3	562.0	568.4	572.8	574.2	575.4
15°	564.8	564.6	562.3	558.8	554.3	552.9	556.9	563.9	569.8	572.8	574.0
17.5°	581.7	580.3	576.6	568.6	559.0	555.2	555.7	561.6	568.4	572.4	573.5
20°	612.7	612.7	604.7	589.7	572.6	563.7	559.5	563.0	569.5	574.9	576.6
22.5°	666.1	666.6	653.2	628.6	599.8	580.8	570.2	569.5	577.3	583.4	585.2
25°	741.9	740.0	721.2	686.1	642.2	610.8	592.5	588.3	594.9	601.7	604.0
27.5°	830.0	823.2	801.0	758.5	701.8	655.8	627.7	620.9	627.2	635.0	637.3
30°	917.3	910.2	883.7	837.3	774.2	716.1	675.8	664.7	673.6	684.7	686.1
32.5°	1004.5	1004.5	974.9	920.8	852.1	788.1	739.8	726.6	741.4	754.8	757.8
35°	1108.8	1109.3	1080.7	1015.5	941.6	873.9	820.7	811.0	833.3	842.7	850.0
37.5°	1237.1	1239.7	1202.9	1124.1	1043.2	971.9	908.6	895.5	917.7	943.3	966.7
40°	1375.7	1378.9	1338.4	1241.3	1160.4	1085.9	1017.4	993.7	1030.7	1079.5	1109.8
42.5°	1507.9	1524.8	1485.6	1385.7	1298.8	1221.6	1152.2	1117.7	1164.2	1237.8	1264.1
45°	1699.0	1711.2	1643.0	1552.5	1470.6	1384.3	1292.4	1256.1	1321.0	1413.9	1419.3
47.5°	1826.3	1817.2	1782.5	1726.2	1674.4	1593.7	1455.4	1415.5	1501.8	1611.1	1580.8
50°	1894.1	1896.9	1892.2	1895.5	1897.4	1846.7	1655.2	1600.5	1703.5	1835.5	1765.8
52.5°	1957.4	1938.6	1954.1	2031.0	2123.9	2105.1	1872.5	1815.5	1919.6	2084.5	1961.4
55°	1956.0	1927.4	1977.8	2113.6	2315.0	2336.5	2116.6	2050.9	2148.3	2351.5	2168.7
57.5°	1886.8	1888.2	1965.8	2143.6	2448.1	2554.1	2399.8	2301.4	2390.7	2622.1	2357.9
60°	1791.6	1804.5	1916.4	2138.6	2554.8	2732.6	2747.3	2571.2	2628.2	2868.1	2514.5
62.5°	1638.0	1651.6	1805.9	2087.5	2538.7	2904.4	3061.5	2877.5	2876.5	3017.2	2560.5
65°	1395.8	1391.8	1553.9	1896.4	2402.9	3031.5	3373.6	3142.2	3063.6	3019.6	2468.1
67.5°	1029.3	1011.5	1150.6	1444.4	1997.3	2889.2	3557.2	3280.1	3127.4	2821.0	2185.8
70°	534.1	516.3	628.9	843.4	1313.5	2254.9	3353.9	3208.8	2986.5	2364.7	1712.4
72.5°	228.4	225.3	271.1	370.0	635.4	1300.6	2629.9	2777.3	2562.6	1761.8	1177.3
75°	153.6	152.6	169.8	201.6	285.8	527.8	1645.8	1971.5	1874.9	1092.4	662.2
77.5°	120.5	119.3	129.4	144.9	185.2	208.2	730.4	1058.4	979.6	475.5	289.8
80°	94.3	93.3	99.7	108.1	133.2	131.3	240.3	421.1	325.9	182.2	140.9
82.5°	74.3	74.3	79.5	79.7	94.5	89.6	125.4	185.5	162.7	106.2	86.3
85°	68.0	68.0	73.4	59.6	61.7	56.5	77.8	110.0	103.2	43.6	37.5
87.5°	34.2	33.3	61.7	52.8	33.5	30.0	38.0	53.2	57.2	24.2	18.8
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°	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6
2.5°	595.8	595.6	596.0	596.3	598.1	600.7	601.9	603.5	604.5	604.0
5°	588.8	589.2	591.1	592.5	595.8	600.0	602.4	604.2	605.9	605.2
7.5°	582.9	584.1	586.9	588.1	589.9	591.1	590.9	591.6	593.0	591.3
10°	579.6	581.0	583.1	581.5	577.0	570.7	564.8	561.8	562.7	561.6
12.5°	576.3	578.2	576.6	568.8	556.4	548.2	543.7	544.2	546.3	546.8
15°	574.5	575.2	568.1	553.6	540.9	539.8	542.1	541.6	541.9	541.9
17.5°	574.5	572.6	559.5	544.9	539.5	537.4	530.1	521.0	517.0	515.6
20°	577.5	572.6	556.6	547.0	535.3	517.3	498.0	481.1	473.6	471.5
22.5°	586.7	578.2	564.6	548.0	514.7	484.4	453.9	433.8	420.2	417.8
25°	605.2	595.8	580.3	535.5	481.8	438.7	404.0	381.5	367.9	366.0
27.5°	637.5	631.4	588.8	508.1	438.2	392.0	359.9	342.6	332.5	331.8
30°	686.3	683.3	584.5	467.5	384.5	346.8	331.3	321.2	313.7	313.5
32.5°	764.2	739.5	570.7	418.1	335.5	314.7	308.3	302.2	296.4	296.4
35°	864.3	785.0	544.4	365.1	305.8	296.8	288.9	279.3	271.5	271.1
37.5°	982.0	813.2	497.3	322.4	291.7	284.9	273.2	258.9	245.3	242.9
40°	1100.9	821.6	431.0	296.1	282.8	272.9	258.6	241.7	228.6	227.9
42.5°	1209.9	805.4	360.6	278.1	273.9	260.7	245.7	230.7	220.4	220.2
45°	1301.3	763.4	301.5	261.0	264.5	249.7	236.4	224.2	216.2	214.5
47.5°	1387.4	704.1	260.0	242.9	255.1	243.6	232.4	220.9	213.1	212.0
50°	1487.3	640.1	231.0	225.3	246.9	241.5	235.6	223.7	210.8	209.4
52.5°	1608.3	584.8	208.2	209.9	240.6	244.3	244.1	231.7	209.2	207.3
55°	1743.3	523.3	191.1	197.2	238.0	249.5	246.2	239.2	210.6	207.7
57.5°	1876.3	451.6	179.1	187.6	234.2	249.0	236.1	226.0	213.8	209.9
60°	1975.9	355.2	170.0	179.1	226.0	241.3	225.1	211.7	213.1	210.1
62.5°	1982.5	274.6	159.0	171.9	213.6	233.5	217.8	205.4	216.2	213.4
65°	1865.9	207.5	148.4	163.2	200.2	228.6	210.8	201.9	222.5	219.5
67.5°	1571.0	166.9	139.5	154.3	186.9	218.3	204.5	198.6	228.1	222.8
70°	1134.2	142.3	130.8	143.5	174.9	206.6	198.8	192.7	212.9	204.5
72.5°	698.3	123.3	121.0	129.2	165.8	194.4	190.4	181.7	191.8	185.0
75°	348.7	106.9	110.0	115.1	152.9	180.5	176.3	167.6	169.1	167.6
77.5°	166.9	91.4	97.1	101.1	136.2	164.8	160.4	151.5	149.8	150.1
80°	105.7	76.4	81.8	84.6	121.7	146.5	142.1	133.2	151.9	140.9
82.5°	66.1	62.1	63.5	68.7	106.0	127.6	121.7	113.7	136.9	108.3
85°	36.6	43.4	45.3	49.7	81.6	106.7	100.8	90.7	81.4	80.0
87.5°	21.8	25.8	26.5	29.8	54.9	77.1	68.2	64.7	53.7	53.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)