

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: P527907

Luminaire Tested: **GALN-SA3A-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6104 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

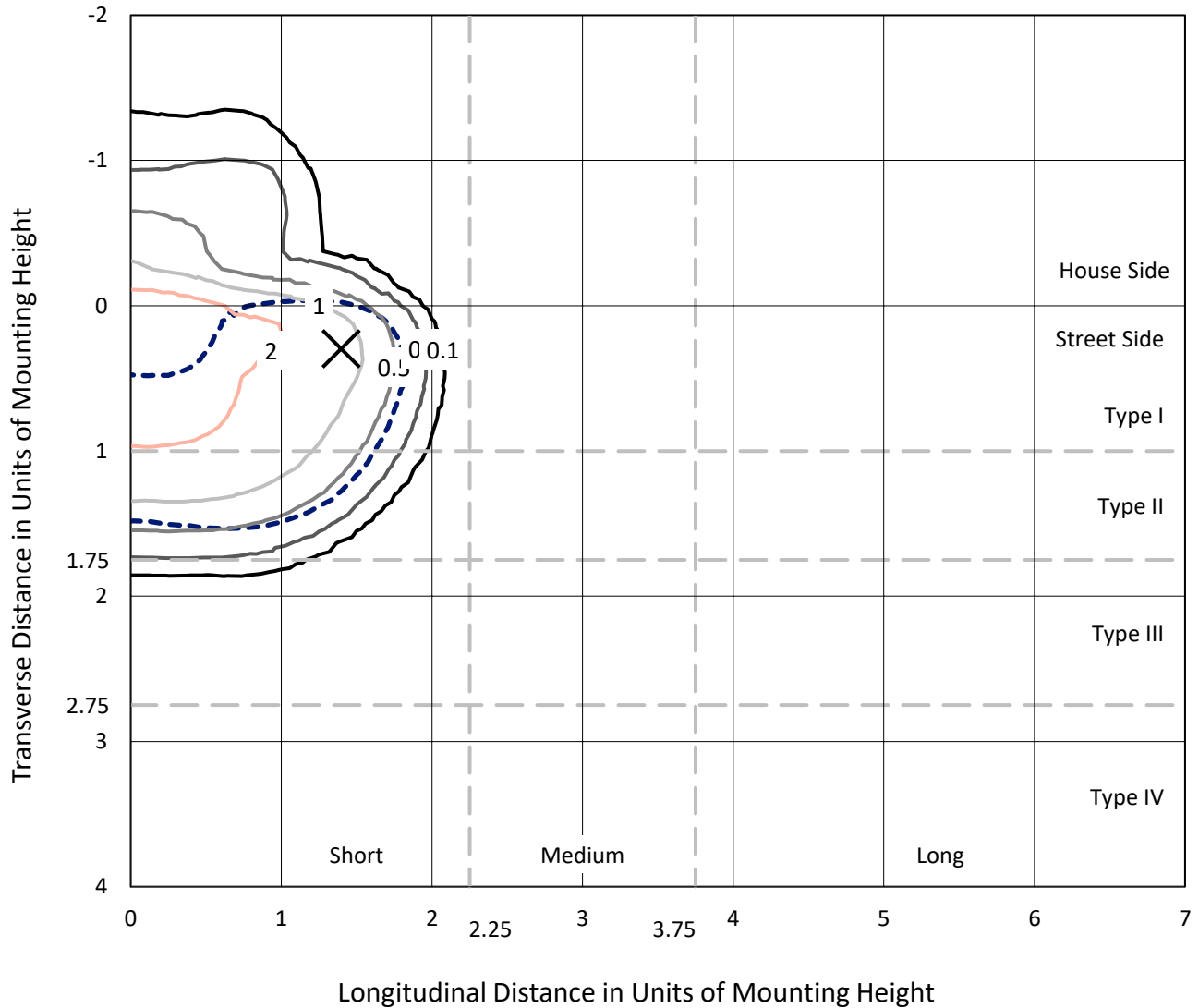
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

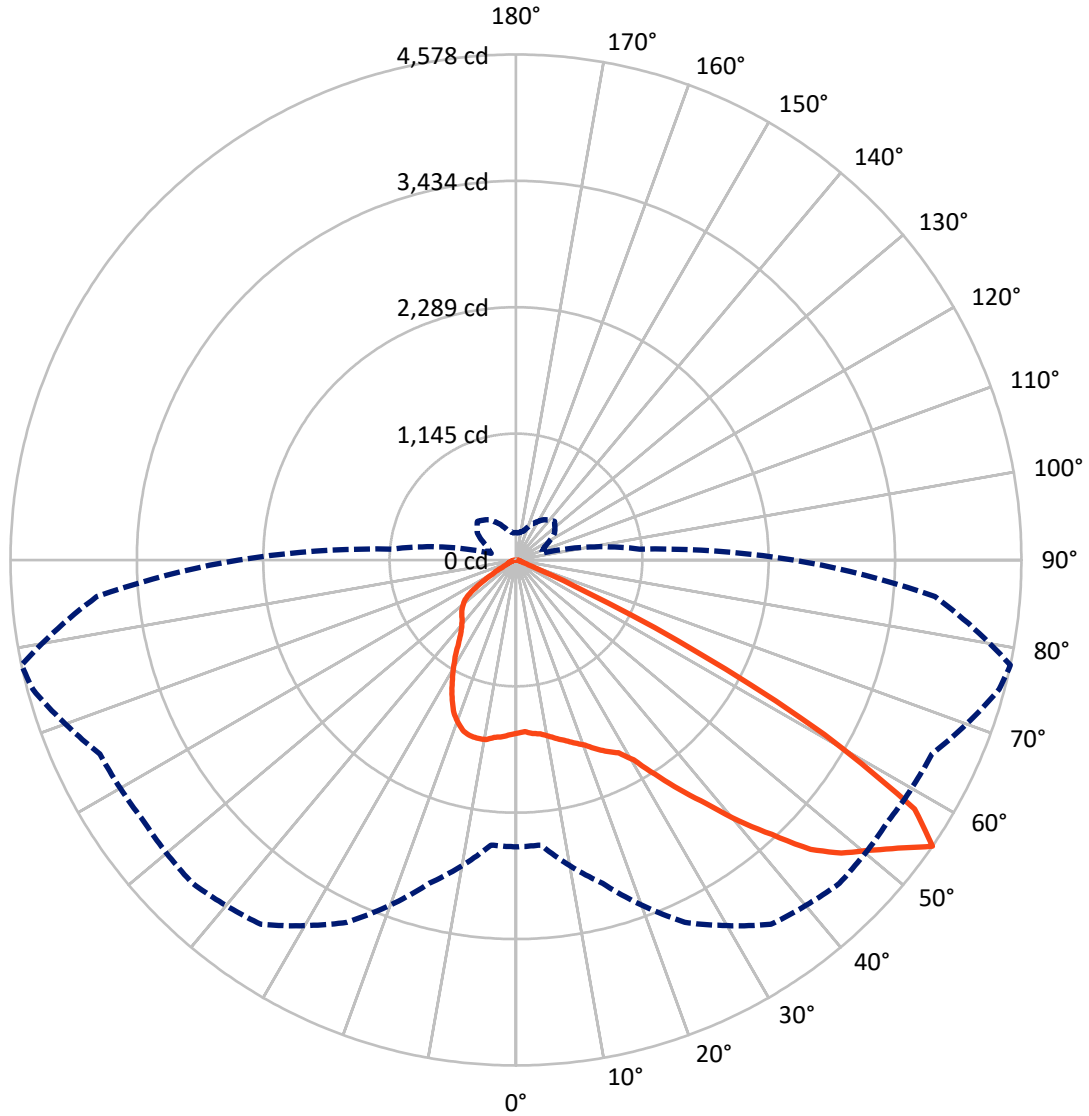
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.8	0.0	1133.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4970.2	0.0	4970.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	6104.0	0.0	6104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	2.3
10°-20°	370.3	6.1
20°-30°	649.1	10.6
30°-40°	1070.4	17.5
40°-50°	1557.5	25.5
50°-60°	1764.8	28.9
60°-70°	504.6	8.3
70°-80°	39.2	0.6
80°-90°	8.1	0.1
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°	6104.0	100.0
0°-180°	6104.0	100.0

Coefficient of Utilization



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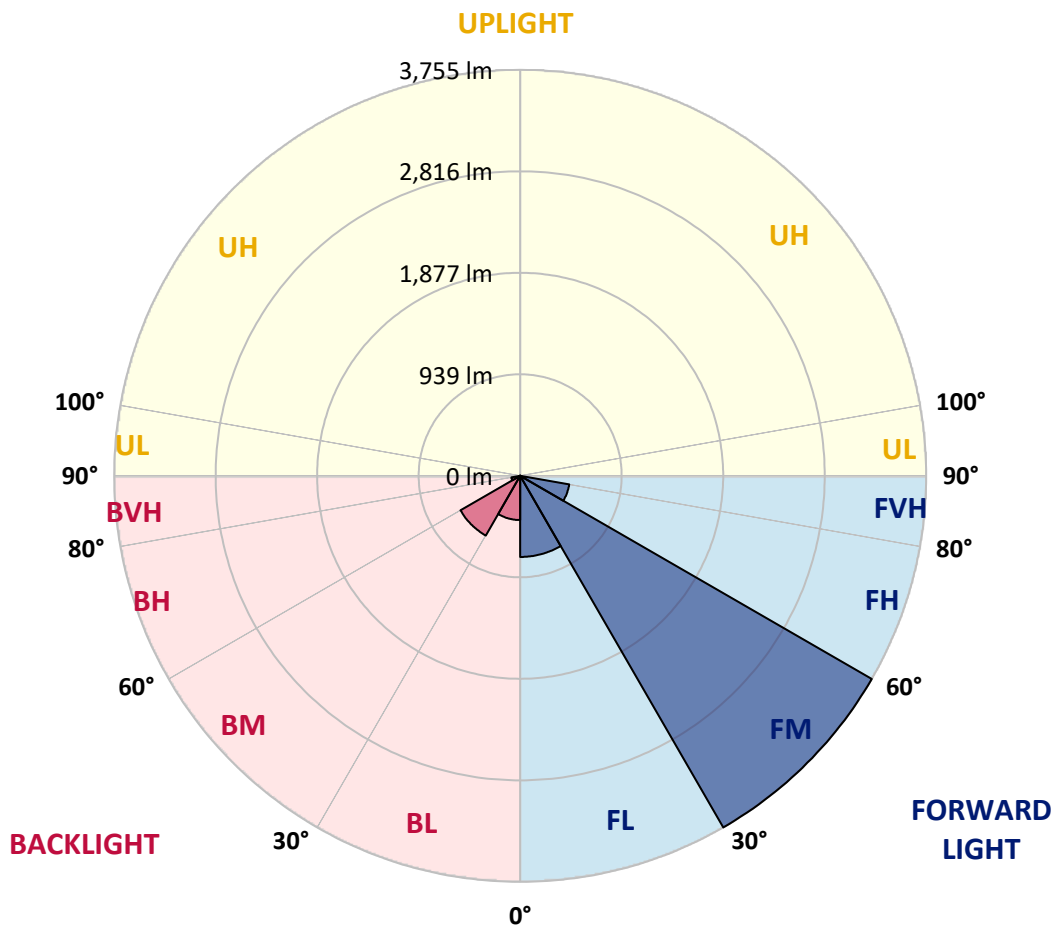
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.4	12.3			
FM (30°-60°)	3754.9	61.5			
FH (60°-80°)	461.0	7.6			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	409.1	6.7	B1/500		
BM (30°-60°)	637.8	10.4	B1/1000		
BH (60°-80°)	82.8	1.4	B0/110		G0/110
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3
2.5°	1475.5	1489.7	1491.9	1509.3	1508.2	1537.7	1546.4	1547.5	1567.2	1557.3	1582.4
5°	1434.0	1426.4	1423.1	1453.7	1462.4	1488.6	1510.4	1523.5	1563.9	1578.1	1604.3
7.5°	1396.9	1396.9	1399.1	1426.4	1423.1	1456.9	1479.9	1520.2	1579.2	1591.2	1622.8
10°	1360.9	1347.8	1364.2	1392.5	1416.6	1431.8	1479.9	1518.0	1586.8	1621.7	1665.4
12.5°	1342.3	1348.9	1351.1	1371.8	1398.0	1443.8	1470.0	1533.3	1641.4	1662.1	1709.0
15°	1459.1	1446.0	1414.4	1395.8	1417.6	1439.5	1505.0	1569.3	1669.7	1699.2	1751.6
17.5°	1594.4	1583.5	1557.3	1507.1	1458.0	1498.4	1549.7	1608.6	1700.3	1744.0	1821.4
20°	1771.2	1753.8	1727.6	1629.4	1586.8	1543.1	1597.7	1667.6	1750.5	1789.8	1869.5
22.5°	1981.9	1981.9	1922.9	1804.0	1715.6	1674.1	1697.0	1737.4	1806.2	1859.6	1938.2
25°	2201.2	2194.7	2141.2	2017.9	1868.4	1819.3	1845.5	1873.8	1892.4	1921.8	1974.2
27.5°	2452.2	2414.0	2346.4	2210.0	2077.9	1983.0	2011.3	1986.2	1963.3	1978.6	2053.9
30°	2622.5	2646.5	2560.3	2429.3	2304.9	2199.0	2204.5	2182.7	2077.9	2099.7	2144.5
32.5°	2799.3	2814.6	2766.5	2694.5	2570.1	2446.8	2402.0	2383.5	2304.9	2314.7	2271.1
35°	2946.6	2976.1	2933.5	2901.9	2865.8	2766.5	2643.2	2703.2	2576.6	2552.6	2439.1
37.5°	3081.9	3073.2	3123.4	3090.7	3083.0	3013.2	2877.9	2889.9	2804.7	2799.3	2668.3
40°	3203.1	3205.3	3274.0	3289.3	3258.7	3134.3	2937.9	3032.8	3101.6	3108.1	2940.1
42.5°	3303.5	3332.9	3391.9	3515.2	3469.4	3262.0	3000.1	3103.8	3359.1	3399.5	3197.6
45°	3390.8	3450.8	3523.9	3634.2	3608.0	3443.2	3155.1	3250.0	3634.2	3740.0	3439.9
47.5°	3396.2	3474.8	3554.5	3718.2	3750.9	3540.3	3315.5	3481.4	3852.4	3967.0	3616.7
50°	3374.4	3415.9	3575.2	3753.1	3827.3	3698.5	3540.3	3675.6	4064.1	4136.2	3706.2
52.5°	3115.8	3147.4	3467.2	3785.8	3964.8	3877.5	3838.2	3946.3	4280.2	4333.7	3790.2
55°	2597.4	2591.9	3031.7	3621.1	4028.1	4142.7	4118.7	4156.9	4530.1	4578.2	3810.9
57.5°	1776.7	1876.0	2255.8	3015.4	3640.7	4080.5	4105.6	4042.3	4238.8	4257.3	3322.0
60°	958.2	999.7	1305.2	2012.4	2772.0	3325.3	3390.8	3276.2	3260.9	3208.5	2371.5
62.5°	380.9	401.6	575.1	996.4	1510.4	2021.2	2161.9	2115.0	2014.6	1877.1	1227.8
65°	181.2	194.3	285.9	466.0	670.1	842.5	983.3	1026.9	757.4	682.1	404.9
67.5°	123.3	133.1	208.4	266.3	239.0	249.9	325.2	302.3	177.9	151.7	112.4
70°	93.9	100.4	167.0	181.2	107.0	75.3	84.0	78.6	73.1	74.2	73.1
72.5°	66.6	72.0	122.2	107.0	46.9	34.9	44.7	53.5	53.5	53.5	52.4
75°	40.4	45.8	70.9	41.5	18.6	18.6	28.4	36.0	38.2	39.3	37.1
77.5°	20.7	26.2	24.0	12.0	12.0	14.2	20.7	25.1	27.3	27.3	26.2
80°	4.4	4.4	4.4	6.5	12.0	15.3	20.7	22.9	26.2	26.2	24.0
82.5°	0.0	1.1	3.3	6.5	10.9	14.2	19.6	22.9	26.2	27.3	25.1
85°	0.0	1.1	2.2	4.4	7.6	8.7	7.6	6.5	6.5	6.5	6.5
87.5°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3	1569.3
2.5°	1584.6	1587.9	1582.4	1581.3	1577.0	1590.1	1558.4	1550.8	1570.4	1551.9	1556.2
5°	1605.4	1613.0	1603.2	1586.8	1562.8	1525.7	1494.0	1452.6	1432.9	1418.7	1416.6
7.5°	1620.6	1626.1	1616.3	1563.9	1491.9	1398.0	1328.2	1276.9	1236.5	1224.5	1204.8
10°	1682.8	1683.9	1634.8	1519.1	1378.4	1255.0	1148.1	1069.5	1029.1	1004.0	993.1
12.5°	1724.3	1722.1	1622.8	1430.7	1243.0	1079.3	957.1	862.2	825.1	813.0	805.4
15°	1776.7	1764.7	1594.4	1340.2	1068.4	891.6	781.4	715.9	712.6	705.0	712.6
17.5°	1818.2	1784.3	1553.0	1175.4	901.4	734.5	662.4	666.8	675.5	683.2	684.3
20°	1885.8	1816.0	1458.0	1031.3	746.5	629.7	628.6	648.3	670.1	678.8	687.5
22.5°	1937.1	1829.1	1356.5	877.4	619.9	587.1	605.7	635.2	651.5	660.3	673.4
25°	1955.7	1793.1	1221.2	723.6	558.8	567.5	595.9	615.5	636.2	646.1	640.6
27.5°	1974.2	1774.5	1059.7	595.9	526.0	554.4	578.4	598.1	604.6	617.7	626.4
30°	2019.0	1710.1	914.5	515.1	509.7	545.7	563.1	569.7	587.1	594.8	594.8
32.5°	2055.0	1685.0	760.7	476.9	507.5	550.0	552.2	552.2	554.4	548.9	546.8
35°	2129.2	1598.8	623.2	454.0	506.4	551.1	556.6	538.0	487.8	468.2	462.7
37.5°	2220.9	1543.1	521.7	448.5	514.0	564.2	573.0	503.1	437.6	406.0	400.5
40°	2332.2	1503.9	455.1	446.4	531.5	594.8	568.6	475.8	390.7	344.9	342.7
42.5°	2462.1	1467.8	410.3	445.3	553.3	626.4	564.2	452.9	342.7	312.1	316.5
45°	2565.7	1448.2	379.8	437.6	560.9	645.0	567.5	412.5	323.0	303.4	305.6
47.5°	2646.5	1406.7	354.7	424.5	559.9	651.5	538.0	396.2	313.2	318.7	324.1
50°	2648.7	1351.1	323.0	396.2	543.5	639.5	504.2	380.9	311.0	333.9	344.9
52.5°	2619.2	1272.5	289.2	355.8	505.3	598.1	473.6	374.3	301.2	299.0	312.1
55°	2514.4	1125.2	232.5	288.1	426.7	493.3	446.4	362.3	271.7	246.6	248.8
57.5°	2032.1	806.5	171.3	206.3	302.3	361.2	402.7	356.9	244.5	209.5	210.6
60°	1258.3	457.3	125.5	140.8	186.6	219.4	326.3	331.8	218.3	176.8	174.6
62.5°	646.1	225.9	97.1	99.3	114.6	128.8	223.7	278.3	197.5	168.1	168.1
65°	216.1	111.3	85.1	76.4	76.4	79.7	135.3	193.2	167.0	140.8	140.8
67.5°	92.8	82.9	74.2	66.6	61.1	57.8	76.4	112.4	124.4	107.0	102.6
70°	72.0	69.8	64.4	55.7	48.0	43.7	44.7	57.8	70.9	68.8	66.6
72.5°	53.5	53.5	51.3	43.7	37.1	31.6	29.5	30.6	33.8	34.9	36.0
75°	37.1	38.2	38.2	33.8	27.3	22.9	19.6	16.4	13.1	10.9	9.8
77.5°	25.1	26.2	28.4	25.1	20.7	15.3	12.0	8.7	5.5	2.2	2.2
80°	21.8	25.1	27.3	25.1	21.8	16.4	12.0	6.5	3.3	0.0	0.0
82.5°	22.9	25.1	28.4	24.0	20.7	15.3	12.0	7.6	3.3	1.1	0.0
85°	5.5	5.5	6.5	7.6	9.8	10.9	8.7	5.5	3.3	1.1	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0
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)