

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639757

Luminaire Tested: GWS-SA5C-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15962.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

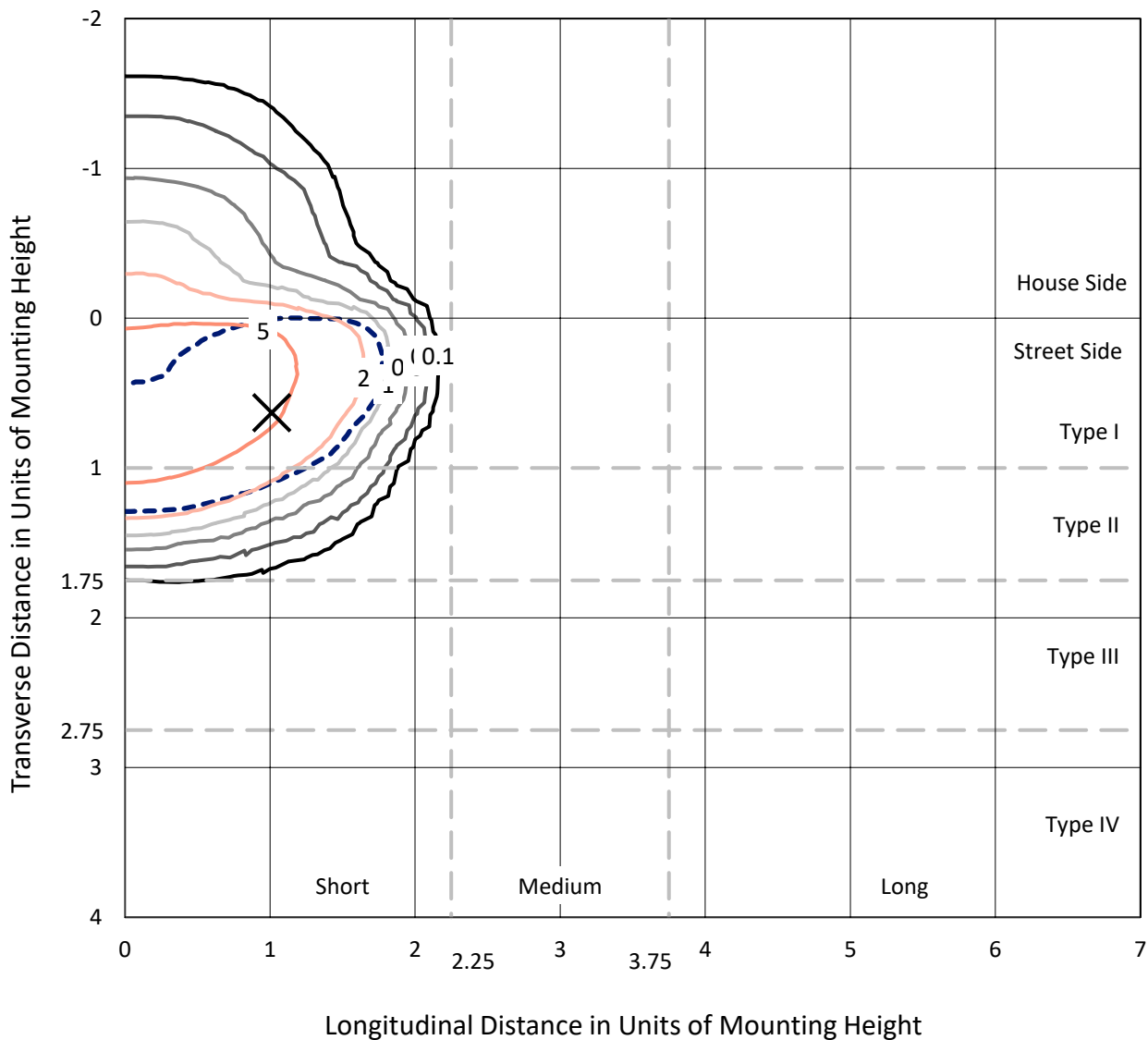
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

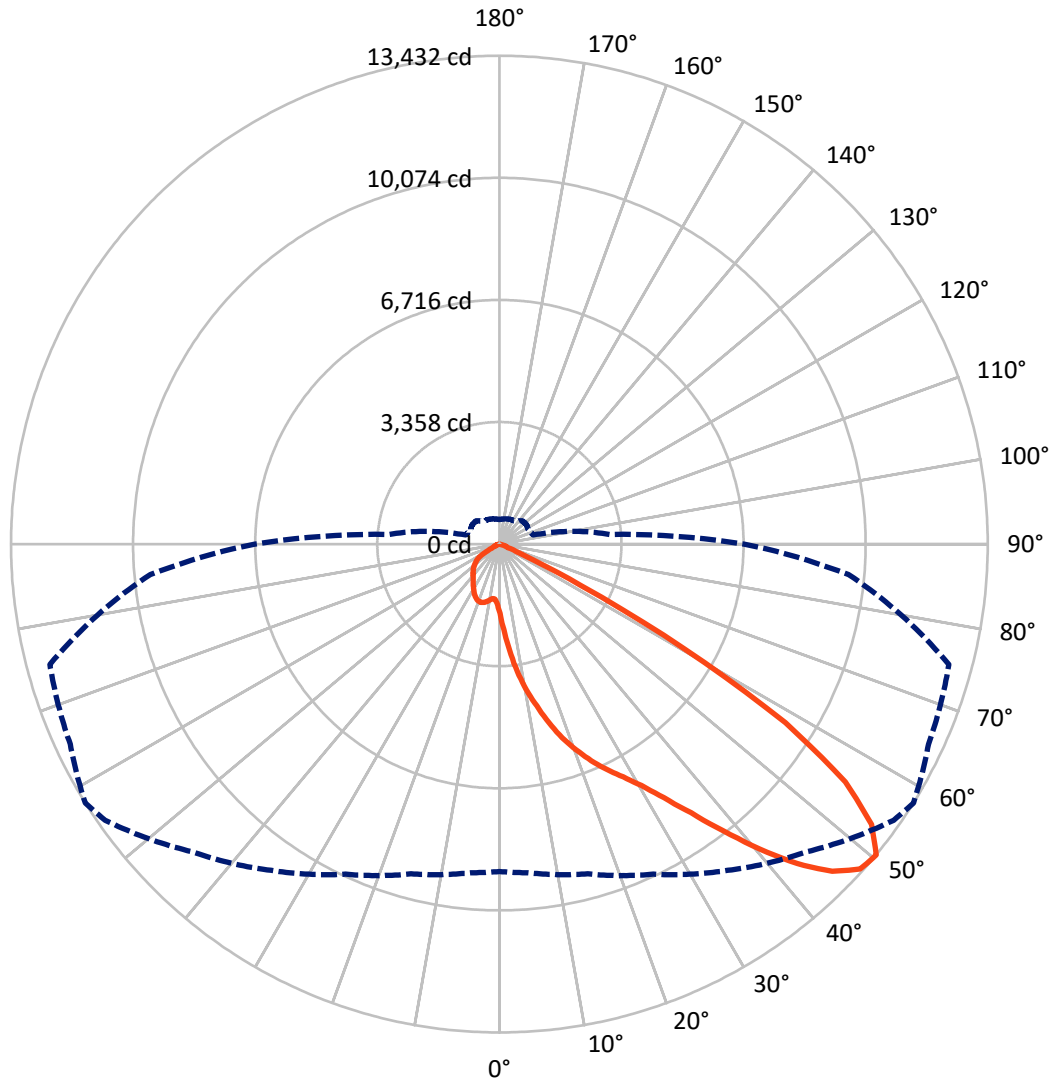
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2235.8	0.0	2235.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13726.8	0.0	13726.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	15962.6	0.0	15962.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	1.5
10°-20°	935.1	5.9
20°-30°	1892.2	11.9
30°-40°	3347.5	21.0
40°-50°	4879.9	30.6
50°-60°	3911.4	24.5
60°-70°	704.7	4.4
70°-80°	55.5	0.3
80°-90°	0.0	0.0
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°	15962.6	100.0
0°-180°	15962.6	100.0

Coefficient of Utilization



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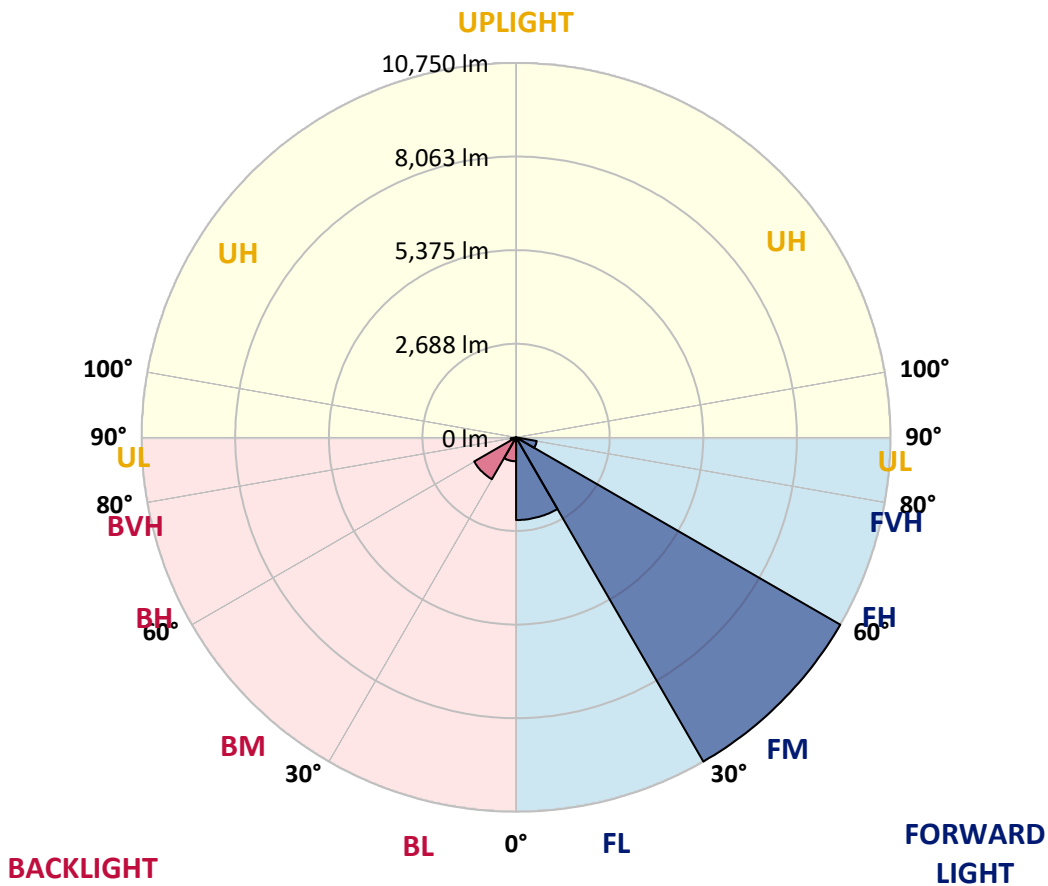
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.2	14.9			
FM (30°-60°)	10750.3	67.3			
FH (60°-80°)	601.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	688.3	4.3	B2/1000		
BM (30°-60°)	1388.5	8.7	B2/2500		
BH (60°-80°)	158.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7
2.5°	2821.7	2777.3	2751.7	2731.2	2640.7	2497.3	2403.4	2353.9	2272.0	2133.7	2014.2
5°	3682.0	3649.5	3589.8	3548.8	3432.8	3229.6	3019.7	2936.0	2750.0	2437.6	2157.6
7.5°	4252.1	4228.2	4206.0	4151.4	4042.1	3857.8	3625.6	3538.6	3251.8	2808.0	2348.8
10°	4690.8	4672.0	4646.4	4644.7	4559.4	4393.8	4166.8	4076.3	3765.6	3210.8	2574.1
12.5°	5076.6	5061.2	5056.1	5103.9	5049.3	4926.4	4680.6	4567.9	4238.5	3622.2	2823.4
15°	5341.2	5337.8	5359.9	5453.8	5484.6	5428.2	5221.7	5100.5	4721.5	4035.3	3098.2
17.5°	5462.4	5472.6	5515.3	5677.4	5814.0	5861.8	5703.0	5600.6	5201.2	4453.5	3391.8
20°	5668.9	5665.5	5691.1	5844.7	6012.0	6182.7	6134.9	6047.9	5686.0	4895.6	3717.8
22.5°	6251.0	6201.5	6146.9	6170.8	6230.5	6430.2	6519.0	6474.6	6186.1	5349.7	4054.1
25°	7145.5	7094.2	6918.4	6747.7	6635.1	6725.5	6846.7	6868.9	6682.9	5815.7	4405.7
27.5°	8094.5	8048.4	7850.4	7594.4	7271.8	7114.7	7205.2	7249.6	7171.1	6370.5	4779.6
30°	8983.9	8922.4	8705.6	8388.1	8014.3	7773.6	7671.2	7701.9	7748.0	7027.7	5218.3
32.5°	9755.4	9709.3	9449.9	9115.3	8755.1	8504.2	8265.2	8316.4	8429.1	7831.7	5779.9
35°	10409.2	10385.3	10110.5	9777.6	9397.0	9268.9	9064.1	9074.3	9187.0	8802.9	6464.4
37.5°	10977.6	10936.7	10687.4	10378.5	10076.3	10055.9	9999.5	10004.7	10062.7	9934.7	7251.3
40°	11336.1	11298.6	11121.0	10929.8	10714.8	10718.2	11010.1	11032.3	10965.7	11045.9	8082.6
42.5°	11471.0	11443.6	11348.1	11349.8	11327.6	11428.3	11976.2	12017.2	11778.2	11918.2	8792.7
45°	11237.1	11225.2	11232.0	11477.8	11744.1	12054.7	12766.6	12838.3	12500.3	12496.9	9347.5
47.5°	10482.6	10458.7	10658.4	11076.6	11692.9	12297.1	13244.5	13355.5	13005.5	12828.0	9695.7
50°	9004.4	9072.6	9388.4	10016.6	10953.7	11964.3	13239.4	13432.3	13024.3	12799.0	9637.7
52.5°	6522.4	6508.7	7200.1	8063.8	9204.1	10899.1	12536.1	12817.8	12568.5	12513.9	9507.9
55°	3548.8	3673.4	4139.4	5283.1	6706.8	8883.2	10929.8	11544.4	11832.8	12409.8	9741.8
57.5°	1304.1	1358.8	1650.7	2459.8	3550.5	5523.8	8348.9	9275.8	10166.8	12119.6	9702.5
60°	525.8	536.0	652.1	904.7	1491.9	2811.4	5008.3	5831.1	6670.9	9277.5	7445.9
62.5°	382.4	396.0	442.1	529.2	754.5	1229.0	2159.3	2511.0	2744.8	4595.2	3668.3
65°	309.0	319.2	356.8	396.0	498.4	660.6	696.5	670.8	667.4	1188.1	841.5
67.5°	256.0	266.3	293.6	320.9	358.5	329.4	239.0	250.9	204.8	203.1	165.6
70°	187.8	199.7	227.0	256.0	215.1	88.8	138.3	204.8	155.3	129.7	126.3
72.5°	141.7	150.2	175.8	167.3	63.2	34.1	92.2	148.5	119.5	95.6	93.9
75°	105.8	111.0	88.8	27.3	6.8	8.5	34.1	61.5	66.6	54.6	54.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.1	6.8	8.5	10.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7	1906.7
2.5°	1946.0	1874.3	1771.9	1686.5	1621.6	1558.5	1510.7	1462.9	1461.2	1437.3	1432.2
5°	2027.9	1898.2	1710.4	1575.5	1493.6	1444.1	1410.0	1392.9	1384.4	1375.8	1372.4
7.5°	2145.7	1959.6	1700.2	1556.8	1488.5	1456.1	1432.2	1421.9	1416.8	1410.0	1408.3
10°	2290.8	2048.4	1737.7	1592.6	1532.9	1502.1	1476.5	1461.2	1452.6	1440.7	1437.3
12.5°	2464.9	2157.6	1797.5	1652.4	1589.2	1548.2	1514.1	1491.9	1480.0	1464.6	1461.2
15°	2652.7	2275.4	1864.0	1707.0	1631.9	1579.0	1536.3	1502.1	1480.0	1461.2	1456.1
17.5°	2847.3	2394.9	1923.8	1744.5	1652.4	1589.2	1527.8	1481.7	1454.4	1430.5	1423.6
20°	3065.7	2517.8	1963.0	1751.4	1645.5	1561.9	1490.2	1432.2	1404.9	1372.4	1365.6
22.5°	3294.5	2632.2	1980.1	1736.0	1608.0	1510.7	1433.9	1374.1	1334.9	1300.7	1290.5
25°	3516.4	2734.6	1971.6	1693.3	1551.7	1439.0	1360.5	1299.0	1256.3	1222.2	1213.7
27.5°	3752.0	2819.9	1940.8	1630.2	1474.8	1360.5	1285.4	1232.4	1193.2	1155.6	1147.1
30°	4016.5	2898.5	1891.3	1553.4	1384.4	1280.2	1222.2	1186.4	1143.7	1104.4	1092.5
32.5°	4335.7	2968.5	1819.6	1461.2	1304.1	1210.3	1177.8	1150.5	1101.0	1060.0	1051.5
35°	4701.0	3026.5	1729.2	1365.6	1225.6	1165.9	1159.0	1123.2	1058.3	1010.5	1000.3
37.5°	5124.4	3082.8	1621.6	1271.7	1167.6	1145.4	1147.1	1085.6	1007.1	949.1	942.3
40°	5580.1	3139.2	1502.1	1189.8	1114.7	1133.4	1118.1	1031.0	903.0	846.7	839.8
42.5°	6054.7	3200.6	1381.0	1113.0	1070.3	1087.4	1065.2	921.8	829.6	800.6	797.2
45°	6483.1	3274.0	1249.5	1036.1	1025.9	1020.8	983.2	834.7	795.5	775.0	773.3
47.5°	6792.1	3262.1	1109.5	962.7	978.1	961.0	846.7	793.7	761.3	734.0	727.2
50°	6735.8	3053.8	964.4	880.8	916.7	901.3	761.3	746.0	716.9	687.9	677.7
52.5°	6592.4	2770.4	838.1	793.7	850.1	814.2	703.3	687.9	662.3	624.8	612.8
55°	6669.2	2504.2	739.1	723.8	781.8	674.3	638.4	614.5	587.2	546.2	541.1
57.5°	6421.7	2043.3	594.0	604.3	691.3	575.3	559.9	522.3	476.2	448.9	445.5
60°	4445.0	1097.6	372.1	384.1	500.1	483.1	501.9	467.7	411.4	385.8	380.7
62.5°	2041.6	440.4	203.1	194.6	262.9	327.7	430.2	426.7	356.8	315.8	312.4
65°	495.0	201.4	145.1	136.6	148.5	196.3	279.9	336.3	288.5	240.7	235.6
67.5°	160.5	163.9	133.1	124.6	131.4	146.8	167.3	186.1	184.4	169.0	165.6
70°	128.0	148.5	122.9	112.7	112.7	117.8	112.7	90.5	78.5	85.3	88.8
72.5°	95.6	112.7	97.3	87.1	83.6	81.9	70.0	51.2	35.8	32.4	30.7
75°	56.3	63.2	59.7	51.2	47.8	42.7	34.1	22.2	11.9	8.5	5.1
77.5°	10.2	11.9	13.7	10.2	8.5	6.8	5.1	1.7	0.0	0.0	0.0
80°	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)