

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: P638052

Luminaire Tested: GWS-SA4E-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638052
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-SA4E-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15110.8 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

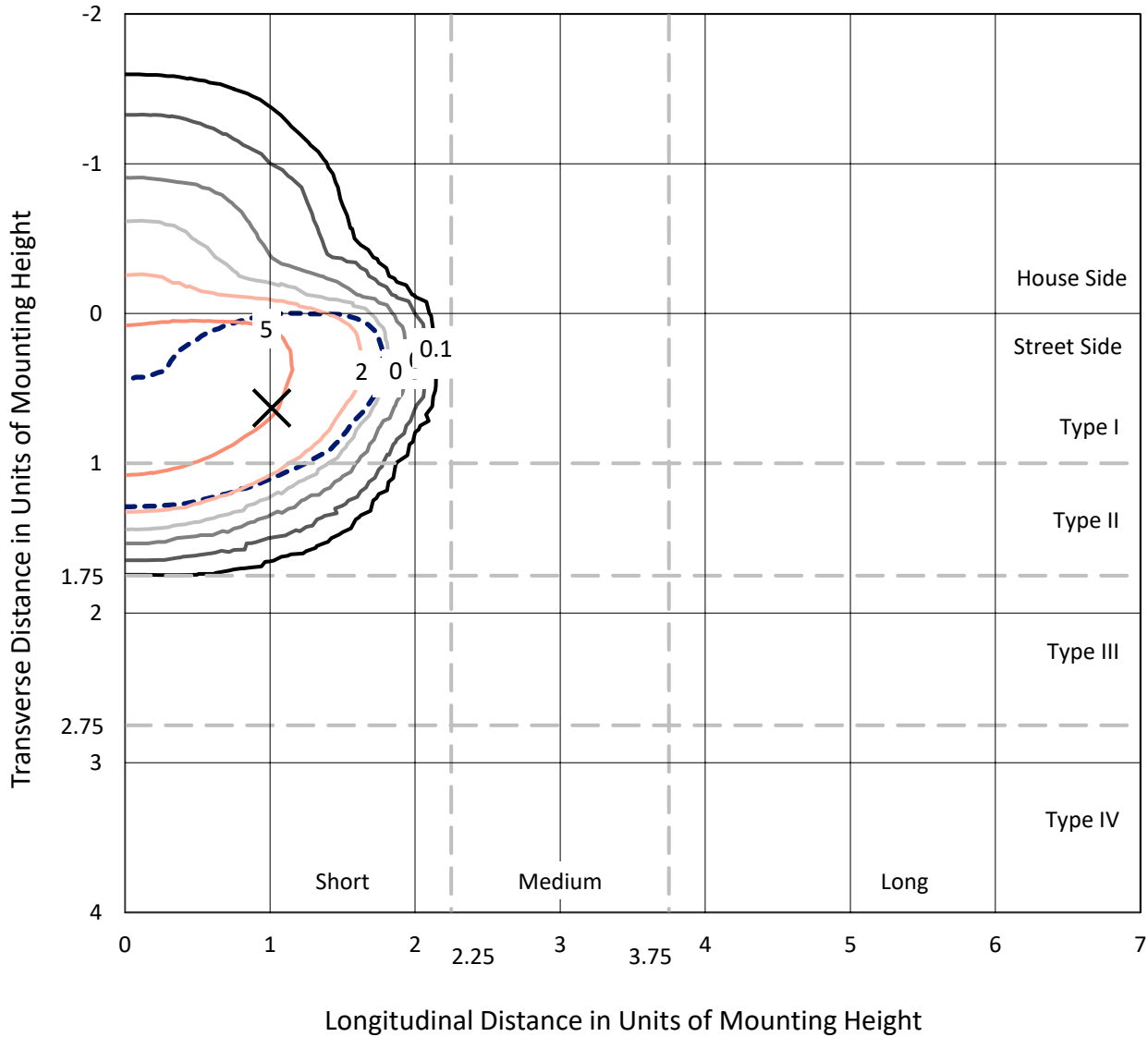
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

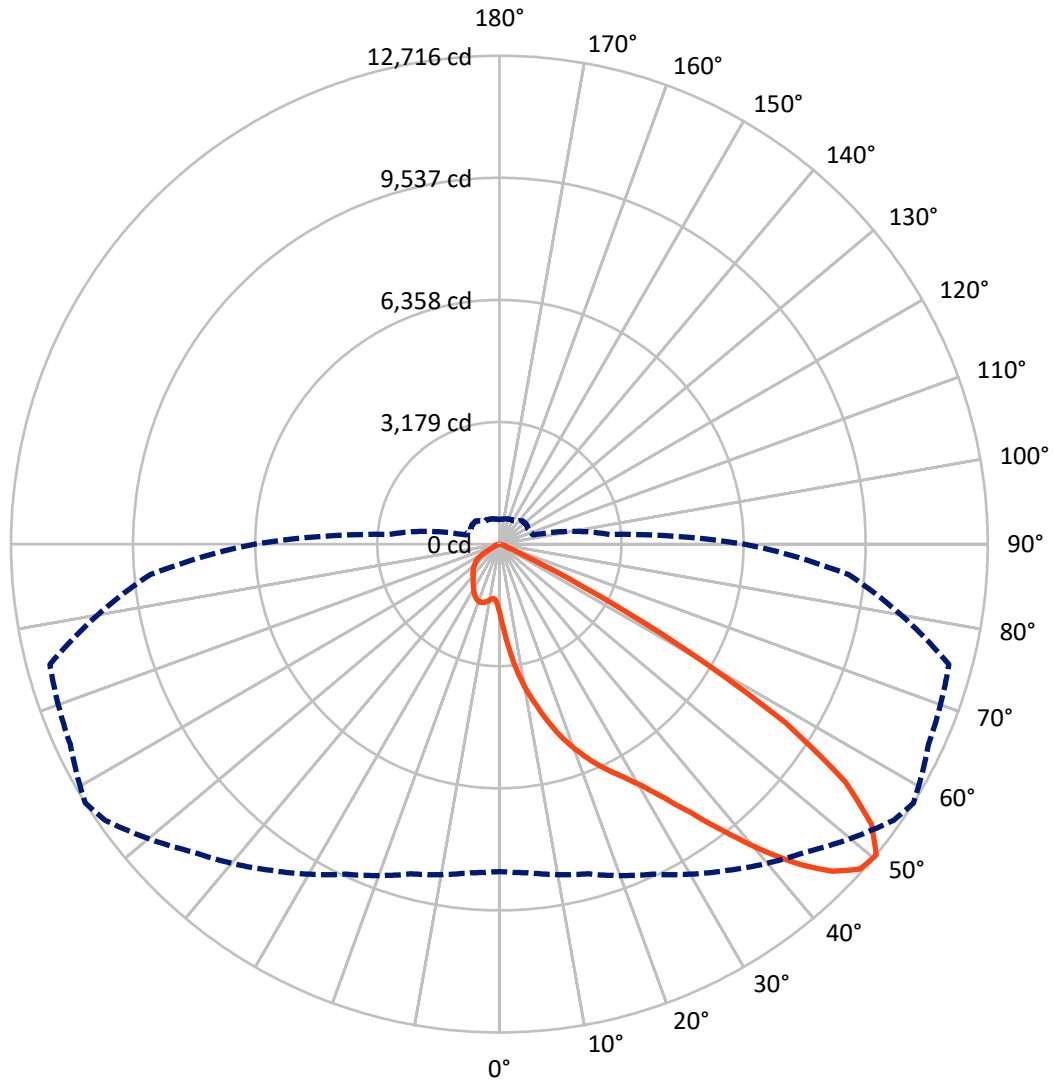
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	2116.5	0.0	2116.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12994.3	0.0	12994.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	15110.8	0.0	15110.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	1.5
10°-20°	885.2	5.9
20°-30°	1791.2	11.9
30°-40°	3168.9	21.0
40°-50°	4619.5	30.6
50°-60°	3702.7	24.5
60°-70°	667.1	4.4
70°-80°	52.6	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°	15110.8	100.0
0°-180°	15110.8	100.0

Coefficient of Utilization



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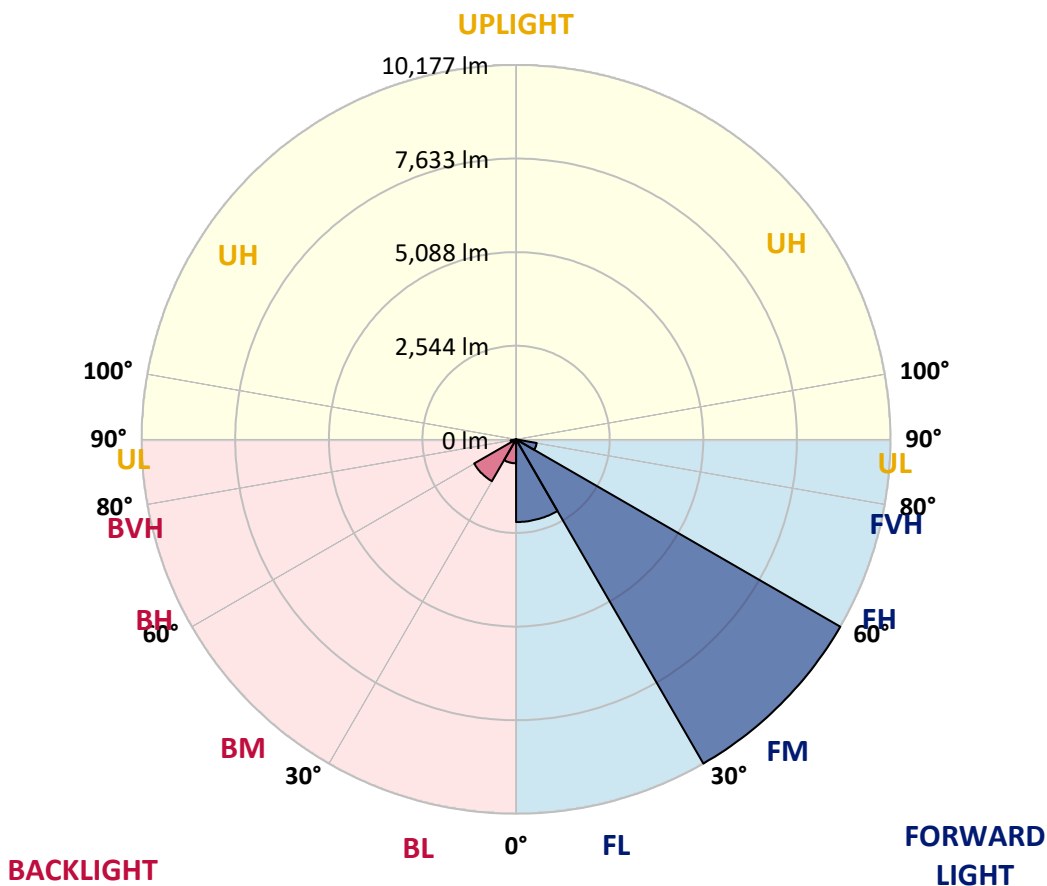
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2248.4	14.9			
FM (30°-60°)	10176.7	67.3			
FH (60°-80°)	569.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	651.6	4.3	B2/1000		
BM (30°-60°)	1314.4	8.7	B2/2500		
BH (60°-80°)	150.4	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°	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0
2.5°	2671.1	2629.1	2604.8	2585.4	2499.8	2364.1	2275.2	2228.3	2150.8	2019.9	1906.8
5°	3485.5	3454.8	3398.2	3359.5	3249.6	3057.3	2858.5	2779.3	2603.2	2307.5	2042.5
7.5°	4025.2	4002.6	3981.6	3929.9	3826.4	3651.9	3432.2	3349.8	3078.3	2658.2	2223.5
10°	4440.5	4422.7	4398.5	4396.9	4316.1	4159.3	3944.4	3858.8	3564.7	3039.5	2436.8
12.5°	4805.7	4791.1	4786.3	4831.5	4779.8	4663.5	4430.8	4324.1	4012.3	3428.9	2672.7
15°	5056.1	5052.9	5073.9	5162.8	5191.9	5138.6	4943.0	4828.3	4469.6	3820.0	2932.9
17.5°	5170.9	5180.6	5221.0	5374.5	5503.8	5549.0	5398.7	5301.8	4923.6	4215.9	3210.8
20°	5366.4	5363.2	5387.4	5532.8	5691.2	5852.8	5807.5	5725.1	5382.6	4634.4	3519.4
22.5°	5917.4	5870.6	5818.9	5841.5	5898.0	6087.1	6171.1	6129.1	5856.0	5064.2	3837.8
25°	6764.2	6715.7	6549.2	6387.6	6281.0	6366.6	6481.4	6502.4	6326.2	5505.4	4170.6
27.5°	7662.6	7619.0	7431.5	7189.1	6883.7	6735.1	6820.7	6862.7	6788.4	6030.5	4524.5
30°	8504.5	8446.3	8241.1	7940.5	7586.6	7358.8	7261.8	7290.9	7334.6	6652.7	4939.8
32.5°	9234.9	9191.2	8945.6	8628.9	8287.9	8050.4	7824.2	7872.7	7979.3	7413.7	5471.4
35°	9853.8	9831.1	9571.0	9255.9	8895.5	8774.3	8580.4	8590.1	8696.8	8333.2	6119.4
37.5°	10391.8	10353.1	10117.1	9824.7	9538.7	9519.3	9465.9	9470.8	9525.7	9404.5	6864.3
40°	10731.2	10695.6	10527.6	10346.6	10143.0	10146.2	10422.5	10443.6	10380.5	10456.5	7651.3
42.5°	10858.8	10833.0	10742.5	10744.1	10723.1	10818.4	11337.1	11375.9	11149.7	11282.2	8323.5
45°	10637.5	10626.2	10632.6	10865.3	11117.4	11411.5	12085.3	12153.2	11833.2	11830.0	8848.7
47.5°	9923.2	9900.6	10089.7	10485.6	11068.9	11640.9	12537.8	12642.8	12311.5	12143.5	9178.3
50°	8523.9	8588.5	8887.4	9482.1	10369.2	11325.8	12532.9	12715.5	12329.3	12116.0	9123.4
52.5°	6174.3	6161.4	6815.9	7633.5	8712.9	10317.5	11867.2	12133.8	11897.9	11846.2	9000.6
55°	3359.5	3477.4	3918.6	5001.2	6348.9	8409.1	10346.6	10928.3	11201.4	11747.6	9221.9
57.5°	1234.5	1286.3	1562.6	2328.5	3361.1	5229.0	7903.4	8780.8	9624.3	11472.9	9184.8
60°	497.7	507.4	617.3	856.4	1412.3	2661.4	4741.0	5519.9	6314.9	8782.4	7048.6
62.5°	362.0	374.9	418.5	500.9	714.2	1163.4	2044.1	2377.0	2598.4	4350.0	3472.6
65°	292.5	302.2	337.7	374.9	471.8	625.4	659.3	635.0	631.8	1124.7	796.6
67.5°	242.4	252.1	277.9	303.8	339.3	311.9	226.2	237.5	193.9	192.3	156.7
70°	177.7	189.1	214.9	242.4	203.6	84.0	130.9	193.9	147.0	122.8	119.6
72.5°	134.1	142.2	166.4	158.4	59.8	32.3	87.3	140.6	113.1	90.5	88.9
75°	100.2	105.0	84.0	25.9	6.5	8.1	32.3	58.2	63.0	51.7	51.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.8	6.5	8.1	9.7
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°	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0
2.5°	1842.1	1774.3	1677.3	1596.5	1535.1	1475.3	1430.1	1384.8	1383.2	1360.6	1355.7
5°	1919.7	1796.9	1619.1	1491.5	1413.9	1367.1	1334.7	1318.6	1310.5	1302.4	1299.2
7.5°	2031.2	1855.1	1609.4	1473.7	1409.1	1378.4	1355.7	1346.0	1341.2	1334.7	1333.1
10°	2168.5	1939.1	1645.0	1507.6	1451.1	1422.0	1397.8	1383.2	1375.1	1363.8	1360.6
12.5°	2333.4	2042.5	1701.5	1564.2	1504.4	1465.6	1433.3	1412.3	1401.0	1386.4	1383.2
15°	2511.1	2154.0	1764.6	1615.9	1544.8	1494.7	1454.3	1422.0	1401.0	1383.2	1378.4
17.5°	2695.3	2267.1	1821.1	1651.4	1564.2	1504.4	1446.2	1402.6	1376.7	1354.1	1347.7
20°	2902.2	2383.5	1858.3	1657.9	1557.7	1478.5	1410.7	1355.7	1329.9	1299.2	1292.7
22.5°	3118.7	2491.7	1874.4	1643.4	1522.2	1430.1	1357.4	1300.8	1263.6	1231.3	1221.6
25°	3328.8	2588.7	1866.4	1603.0	1468.9	1362.2	1287.9	1229.7	1189.3	1157.0	1148.9
27.5°	3551.7	2669.5	1837.3	1543.2	1396.1	1287.9	1216.8	1166.7	1129.5	1094.0	1085.9
30°	3802.2	2743.8	1790.4	1470.5	1310.5	1211.9	1157.0	1123.0	1082.7	1045.5	1034.2
32.5°	4104.4	2810.0	1722.5	1383.2	1234.5	1145.7	1115.0	1089.1	1042.3	1003.5	995.4
35°	4450.2	2865.0	1636.9	1292.7	1160.2	1103.7	1097.2	1063.3	1001.9	956.6	946.9
37.5°	4850.9	2918.3	1535.1	1203.8	1105.3	1084.3	1085.9	1027.7	953.4	898.4	892.0
40°	5282.4	2971.6	1422.0	1126.3	1055.2	1073.0	1058.4	976.0	854.8	801.5	795.0
42.5°	5731.6	3029.8	1307.3	1053.6	1013.2	1029.3	1008.3	872.6	785.3	757.9	754.6
45°	6137.2	3099.3	1182.8	980.9	971.2	966.3	930.8	790.2	753.0	733.6	732.0
47.5°	6429.7	3088.0	1050.3	911.4	925.9	909.8	801.5	751.4	720.7	694.8	688.4
50°	6376.3	2890.8	913.0	833.8	867.7	853.2	720.7	706.1	678.7	651.2	641.5
52.5°	6240.6	2622.6	793.4	751.4	804.7	770.8	665.8	651.2	627.0	591.4	580.1
55°	6313.3	2370.5	699.7	685.1	740.1	638.3	604.3	581.7	555.9	517.1	512.2
57.5°	6079.0	1934.2	562.3	572.0	654.4	544.6	530.0	494.5	450.8	425.0	421.7
60°	4207.8	1039.0	352.3	363.6	473.5	457.3	475.1	442.8	389.4	365.2	360.3
62.5°	1932.6	416.9	192.3	184.2	248.8	310.3	407.2	404.0	337.7	298.9	295.7
65°	468.6	190.7	137.4	129.3	140.6	185.8	265.0	318.3	273.1	227.8	223.0
67.5°	151.9	155.1	126.0	118.0	124.4	139.0	158.4	176.1	174.5	160.0	156.7
70°	121.2	140.6	116.3	106.6	106.6	111.5	106.6	85.6	74.3	80.8	84.0
72.5°	90.5	106.6	92.1	82.4	79.2	77.6	66.3	48.5	33.9	30.7	29.1
75°	53.3	59.8	56.6	48.5	45.2	40.4	32.3	21.0	11.3	8.1	4.8
77.5°	9.7	11.3	12.9	9.7	8.1	6.5	4.8	1.6	0.0	0.0	0.0
80°	0.0	1.6	1.6	1.6	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)