

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: P639313

Luminaire Tested: GWS-SA5B-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10788.6 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

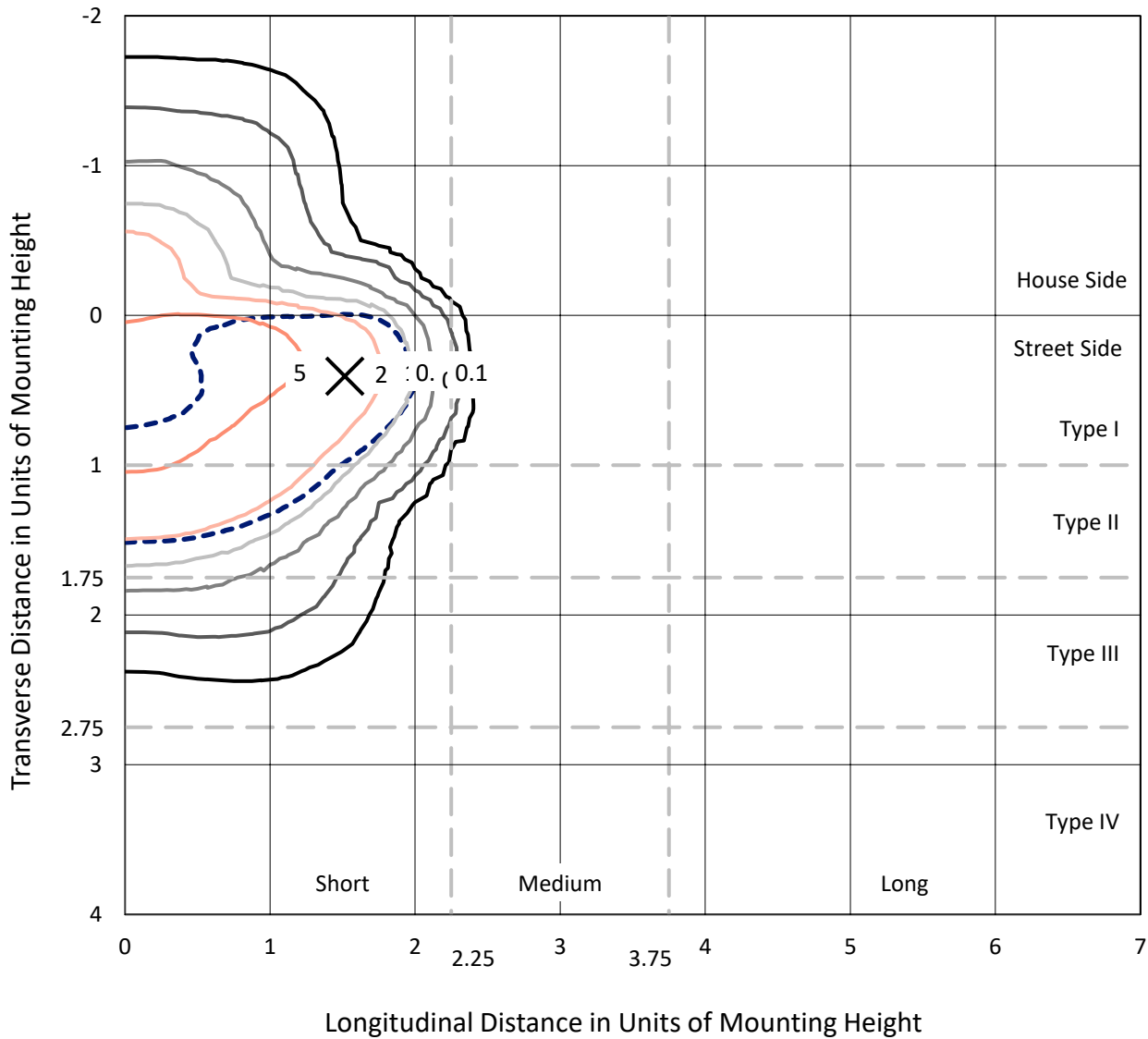
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

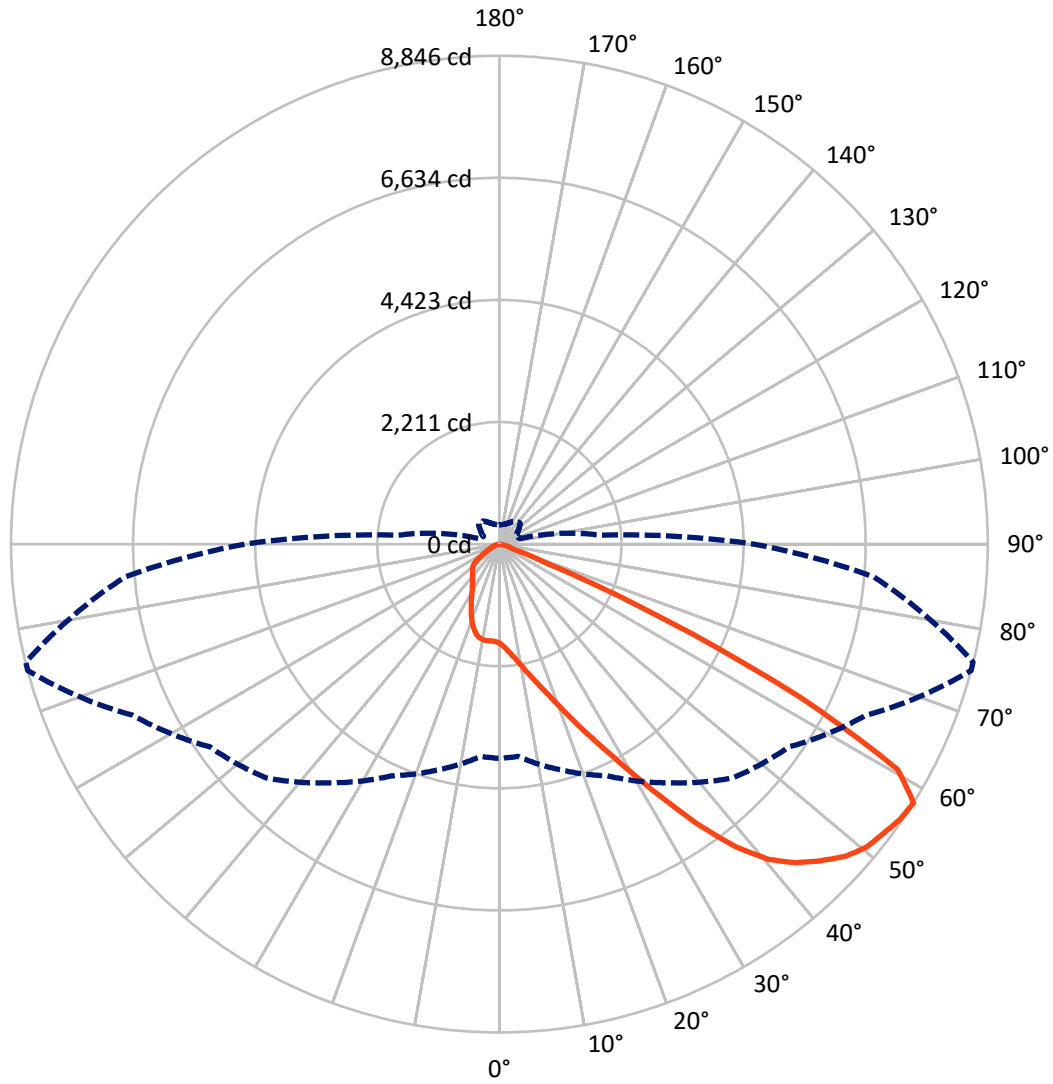
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.3	0.0	1762.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9026.3	0.0	9026.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	10788.6	0.0	10788.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.7
10°-20°	594.8	5.5
20°-30°	1089.2	10.1
30°-40°	1807.1	16.8
40°-50°	2759.9	25.6
50°-60°	3101.2	28.7
60°-70°	1143.9	10.6
70°-80°	109.3	1.0
80°-90°	0.1	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°	10788.6	100.0
0°-180°	10788.6	100.0

Coefficient of Utilization



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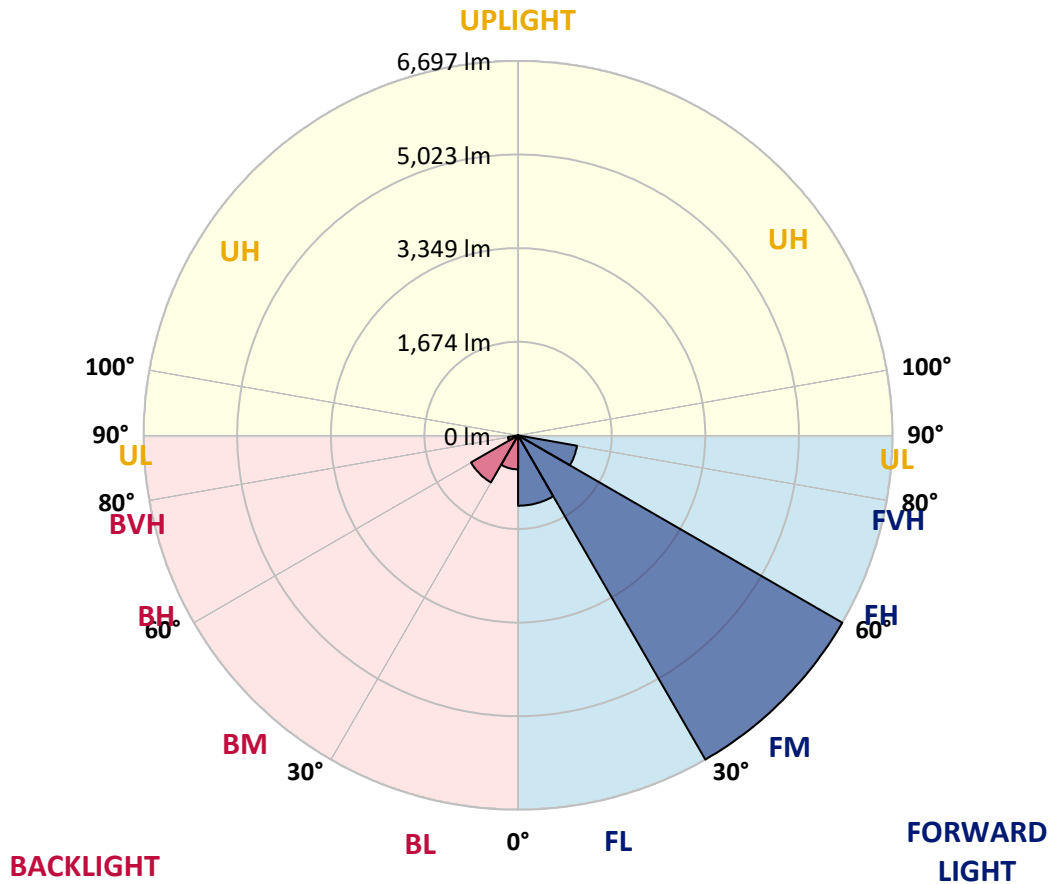
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.0	11.7			
FM (30°-60°)	6697.1	62.1			
FH (60°-80°)	1070.2	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	608.1	5.6	B2/1000		
BM (30°-60°)	971.1	9.0	B1/1000		
BH (60°-80°)	183.0	1.7	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°	65°	75°	76°	85°
0°	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4
2.5°	2010.3	2031.1	2024.6	2011.6	2003.8	1976.5	1959.5	1910.1	1874.9	1871.0	1838.4
5°	2264.2	2260.3	2255.1	2239.5	2226.5	2183.5	2132.7	2049.4	1975.2	1966.0	1897.0
7.5°	2403.5	2406.1	2408.7	2406.1	2397.0	2364.5	2308.5	2210.8	2097.6	2089.7	1980.4
10°	2460.8	2466.0	2479.0	2503.8	2525.9	2523.3	2490.8	2390.5	2251.2	2238.2	2091.0
12.5°	2488.2	2494.7	2515.5	2562.4	2622.3	2669.1	2674.3	2584.5	2430.9	2410.0	2222.5
15°	2525.9	2532.4	2558.5	2619.7	2706.9	2799.3	2859.2	2801.9	2630.1	2607.9	2367.1
17.5°	2542.8	2552.0	2589.7	2670.4	2783.7	2925.6	3061.0	3055.8	2865.7	2848.8	2535.0
20°	2575.4	2581.9	2615.8	2703.0	2839.7	3044.1	3272.0	3354.0	3153.5	3128.7	2738.1
22.5°	2678.3	2680.9	2696.5	2751.2	2878.8	3130.1	3486.8	3701.6	3493.3	3460.8	2966.0
25°	2846.2	2844.9	2851.4	2860.5	2954.3	3217.3	3693.8	4093.5	3882.6	3847.5	3223.8
27.5°	3059.7	3059.7	3075.4	3049.3	3087.1	3325.4	3898.2	4544.0	4335.7	4286.2	3506.3
30°	3311.0	3309.7	3346.2	3304.5	3316.2	3495.9	4118.3	5034.9	4882.6	4821.4	3831.8
32.5°	3652.2	3644.3	3686.0	3628.7	3589.7	3753.7	4386.5	5547.9	5537.5	5443.7	4240.7
35°	4083.1	4070.1	4083.1	4027.1	3956.8	4114.4	4738.0	6059.6	6264.0	6165.1	4727.6
37.5°	4511.5	4553.2	4567.5	4471.1	4413.8	4571.4	5161.2	6517.9	6958.0	6855.1	5234.1
40°	5016.7	5003.7	5053.1	4945.1	4908.6	5083.1	5575.2	6859.0	7507.4	7409.8	5684.6
42.5°	5389.1	5412.5	5473.7	5413.8	5385.1	5549.2	5922.9	7058.2	7888.9	7792.6	6006.2
45°	5835.6	5852.6	5876.0	5826.5	5796.6	5958.0	6174.2	7145.5	8179.3	8075.1	6222.3
47.5°	6318.7	6331.7	6331.7	6230.2	6133.8	6200.2	6342.1	7194.9	8446.2	8345.9	6382.5
50°	6665.0	6671.5	6728.8	6657.2	6447.6	6344.7	6418.9	7243.1	8623.3	8529.5	6434.6
52.5°	6357.8	6349.9	6538.7	6687.2	6743.1	6538.7	6551.8	7313.4	8709.2	8628.5	6476.2
55°	5353.9	5340.9	5606.5	5967.1	6460.6	6722.3	6711.9	7355.1	8804.2	8754.8	6627.3
57.5°	3881.3	3859.2	4229.0	4630.0	5277.1	5986.7	6403.3	7331.7	8845.9	8842.0	6803.0
60°	2333.2	2315.0	2663.9	3085.8	3585.8	4299.3	4990.6	6567.4	8288.6	8296.5	6346.0
62.5°	1436.1	1453.1	1768.1	1983.0	2169.2	2384.0	2783.7	4417.7	6140.3	6191.1	4459.4
65°	966.1	979.1	1270.8	1541.6	1541.6	1260.4	1082.0	2111.9	3275.9	3189.9	2109.3
67.5°	648.4	662.7	893.2	1209.6	1255.1	878.9	438.8	630.2	912.7	885.4	522.1
70°	381.5	397.1	595.0	829.4	914.0	611.9	293.0	266.9	259.1	251.3	203.1
72.5°	170.6	177.1	303.4	421.9	385.4	257.8	207.0	213.5	201.8	197.9	165.4
75°	52.1	54.7	78.1	91.1	92.4	92.4	125.0	168.0	158.8	160.1	127.6
77.5°	13.0	13.0	20.8	19.5	10.4	9.1	23.4	37.8	39.1	35.2	26.0
80°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
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°	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4	1799.4
2.5°	1824.1	1790.3	1768.1	1736.9	1714.8	1691.3	1670.5	1653.6	1644.4	1641.8	1643.1
5°	1865.8	1812.4	1760.3	1700.4	1658.8	1619.7	1588.5	1563.7	1552.0	1548.1	1548.1
7.5°	1929.6	1855.4	1762.9	1669.2	1598.9	1537.7	1501.2	1473.9	1463.5	1460.9	1453.1
10°	2012.9	1911.4	1759.0	1613.2	1514.2	1450.4	1424.4	1416.6	1420.5	1421.8	1420.5
12.5°	2113.2	1970.0	1734.3	1531.2	1424.4	1385.3	1388.0	1408.8	1432.2	1443.9	1446.5
15°	2219.9	2023.3	1678.3	1433.5	1347.6	1346.3	1384.0	1432.2	1477.8	1497.3	1502.5
17.5°	2339.7	2066.3	1592.4	1329.4	1281.2	1318.9	1386.6	1460.9	1522.1	1554.6	1561.1
20°	2471.2	2101.5	1483.0	1231.7	1222.6	1290.3	1384.0	1475.2	1550.7	1587.2	1593.7
22.5°	2607.9	2126.2	1356.7	1141.9	1169.2	1257.7	1359.3	1447.8	1519.5	1561.1	1566.3
25°	2764.2	2128.8	1227.8	1066.4	1119.7	1213.5	1299.4	1372.3	1432.2	1468.7	1472.6
27.5°	2900.9	2097.6	1113.2	1005.2	1074.2	1158.8	1216.1	1256.4	1298.1	1318.9	1320.2
30°	3058.4	2042.9	1005.2	955.7	1027.3	1091.1	1119.7	1128.8	1132.8	1136.7	1131.5
32.5°	3245.9	1976.5	924.4	907.5	973.9	1016.9	1024.7	1006.5	984.3	953.1	945.3
35°	3476.4	1916.6	858.0	860.6	915.3	941.4	934.8	895.8	852.8	815.1	808.6
37.5°	3726.4	1865.8	807.3	815.1	851.5	869.7	850.2	807.3	787.7	755.2	756.5
40°	3947.7	1824.1	761.7	769.5	786.4	803.3	772.1	743.5	779.9	777.3	779.9
42.5°	4105.3	1789.0	722.6	718.7	730.4	742.2	718.7	704.4	765.6	748.7	757.8
45°	4197.7	1756.4	690.1	666.6	684.9	705.7	690.1	671.8	692.7	614.6	608.0
47.5°	4260.2	1738.2	661.4	615.9	648.4	684.9	652.3	608.0	578.1	510.4	505.2
50°	4266.7	1729.1	627.6	563.8	605.4	644.5	606.7	545.5	502.6	472.6	468.7
52.5°	4300.6	1747.3	580.7	497.4	542.9	605.4	579.4	518.2	459.6	433.6	428.4
55°	4451.6	1824.1	502.6	406.2	472.6	575.5	557.3	462.2	406.2	390.6	386.7
57.5°	4607.8	1839.8	395.8	321.6	411.4	532.5	509.1	425.8	371.1	352.8	348.9
60°	4213.3	1515.5	296.9	265.6	363.3	492.2	471.3	403.6	339.8	317.7	313.8
62.5°	2768.1	819.0	235.7	225.2	306.0	416.6	429.7	364.6	303.4	279.9	278.6
65°	1276.0	380.2	181.0	178.4	239.6	332.0	369.8	319.0	256.5	235.7	235.7
67.5°	347.6	188.8	141.9	131.5	162.8	222.6	269.5	238.3	182.3	157.5	156.2
70°	173.2	152.3	127.6	113.3	117.2	138.0	158.8	132.8	92.4	75.5	74.2
72.5°	141.9	125.0	108.1	96.3	88.5	84.6	82.0	66.4	43.0	32.6	31.2
75°	105.5	89.8	76.8	62.5	53.4	49.5	44.3	32.6	18.2	10.4	9.1
77.5°	23.4	22.1	20.8	15.6	14.3	11.7	9.1	6.5	2.6	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	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)