

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: P640307

Luminaire Tested: GWS-SA5D-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640307
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-SA5D-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20599.3 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

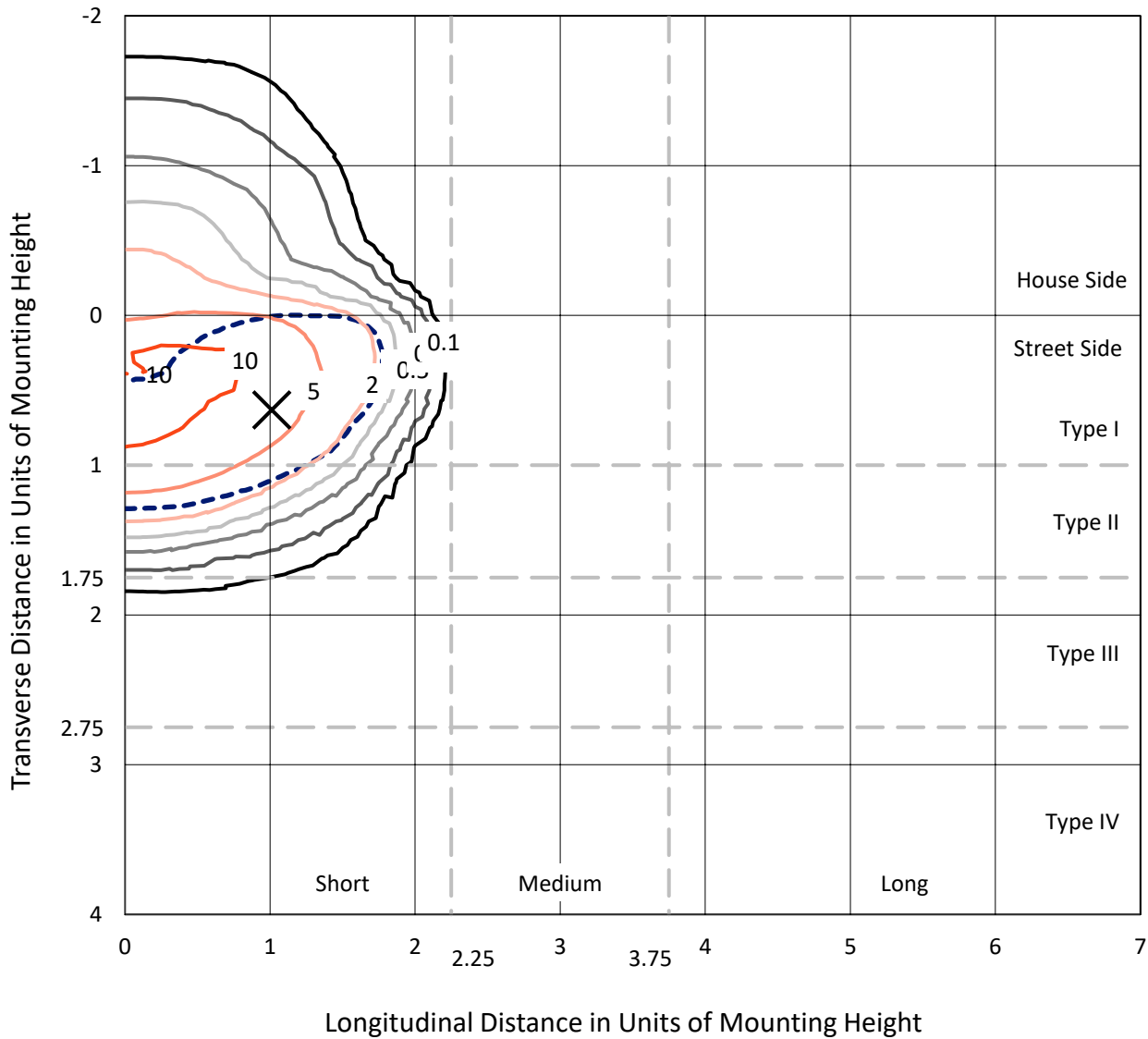
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640307
 CATALOG NUMBER: GWS-SA5D-750-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

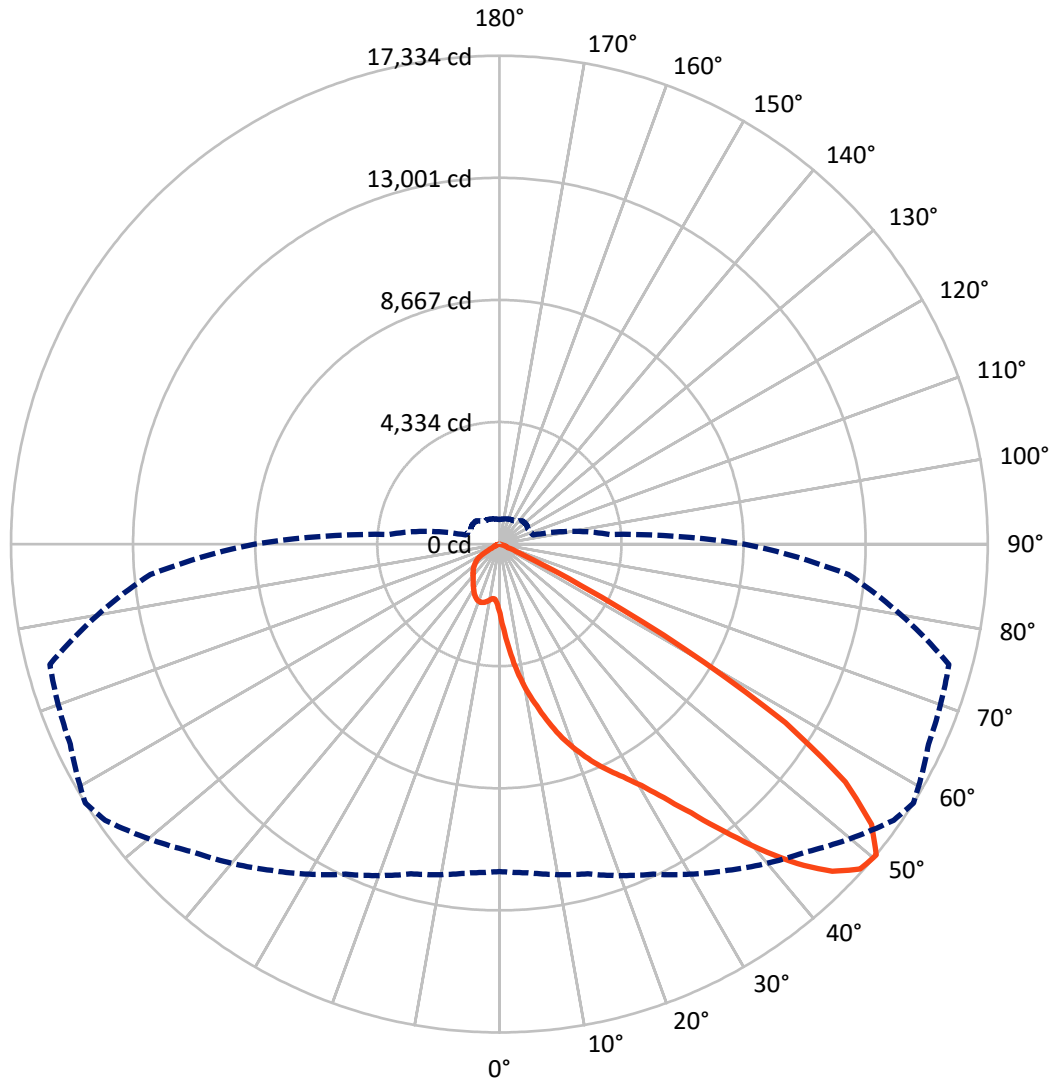
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

REPORT NUMBER: P640307
CATALOG NUMBER: GWS-SA5D-750-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640307

CATALOG NUMBER: GWS-SA5D-750-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2885.2	0.0	2885.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17714.1	0.0	17714.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	20599.3	0.0	20599.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.5
10°-20°	1206.7	5.9
20°-30°	2441.8	11.9
30°-40°	4319.9	21.0
40°-50°	6297.4	30.6
50°-60°	5047.6	24.5
60°-70°	909.4	4.4
70°-80°	71.7	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°	20599.3	100.0
0°-180°	20599.3	100.0

Coefficient of Utilization



REPORT NUMBER: P640307

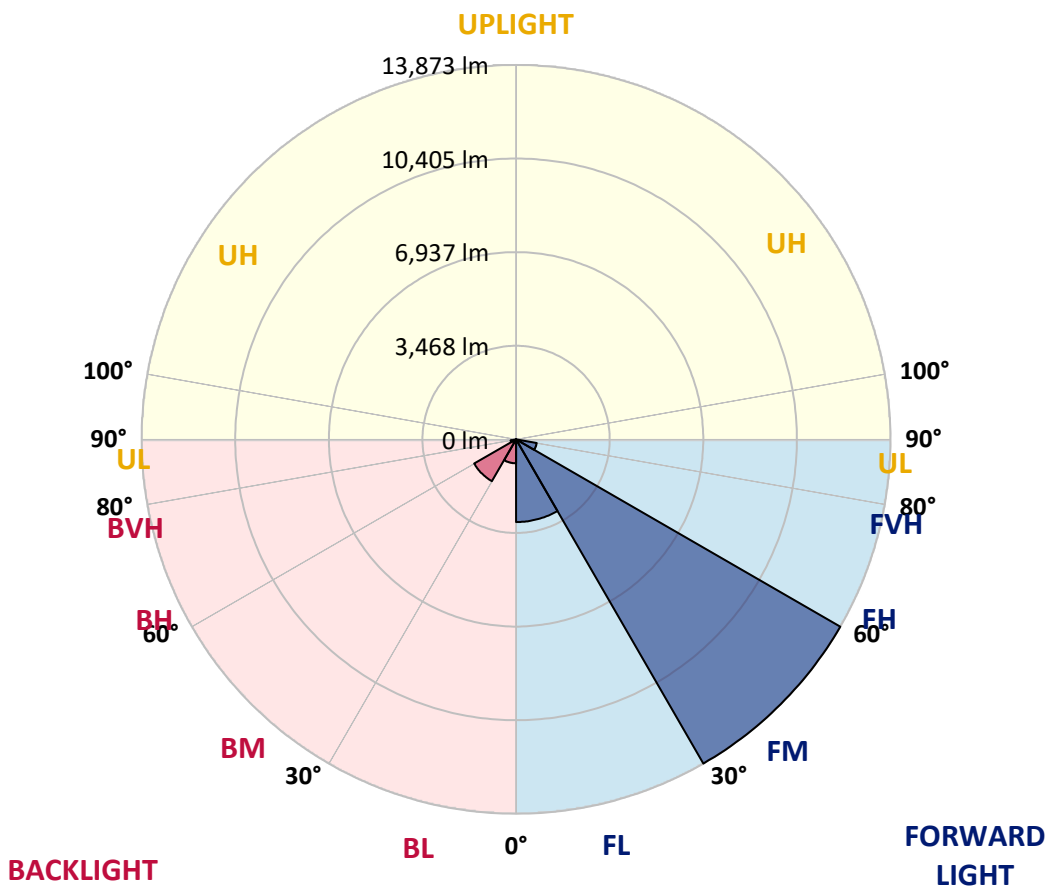
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3065.1	14.9			
FM (30°-60°)	13873.0	67.3			
FH (60°-80°)	776.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	888.2	4.3	B2/1000		
BM (30°-60°)	1791.9	8.7	B2/2500		
BH (60°-80°)	205.1	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





REPORT NUMBER: P640307

CATALOG NUMBER: GWS-SA5D-750-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6
2.5°	3641.3	3584.0	3550.9	3524.5	3407.8	3222.7	3101.6	3037.7	2932.0	2753.5	2599.3
5°	4751.5	4709.6	4632.5	4579.7	4429.9	4167.7	3896.8	3788.9	3548.7	3145.6	2784.4
7.5°	5487.2	5456.4	5427.8	5357.3	5216.3	4978.4	4678.8	4566.4	4196.4	3623.6	3031.1
10°	6053.4	6029.1	5996.1	5993.9	5883.7	5670.1	5377.1	5260.3	4859.4	4143.5	3321.9
12.5°	6551.2	6531.4	6524.8	6586.4	6515.9	6357.3	6040.1	5894.7	5469.6	4674.4	3643.5
15°	6892.6	6888.2	6916.9	7038.0	7077.7	7005.0	6738.4	6582.0	6093.0	5207.5	3998.1
17.5°	7049.0	7062.2	7117.3	7326.6	7502.8	7564.5	7359.6	7227.5	6712.0	5747.2	4377.0
20°	7315.6	7311.2	7344.2	7542.5	7758.3	7978.6	7916.9	7804.6	7337.6	6317.7	4797.7
22.5°	8066.7	8002.8	7932.4	7963.2	8040.3	8298.0	8412.6	8355.3	7983.0	6903.6	5231.7
25°	9221.0	9154.9	8928.0	8707.8	8562.4	8679.1	8835.5	8864.2	8624.0	7505.0	5685.5
27.5°	10445.8	10386.3	10130.8	9800.4	9384.0	9181.4	9298.1	9355.4	9254.1	8220.9	6167.9
30°	11593.4	11514.1	11234.4	10824.7	10342.2	10031.6	9899.5	9939.1	9998.6	9069.0	6734.0
32.5°	12589.1	12529.6	12194.8	11763.1	11298.3	10974.5	10666.1	10732.1	10877.5	10106.5	7458.8
35°	13432.8	13402.0	13047.3	12617.8	12126.5	11961.3	11697.0	11710.2	11855.6	11359.9	8342.1
37.5°	14166.3	14113.5	13791.9	13393.2	13003.3	12976.8	12904.1	12910.7	12985.6	12820.4	9357.6
40°	14628.9	14580.5	14351.4	14104.7	13827.1	13831.5	14208.2	14236.8	14150.9	14254.5	10430.4
42.5°	14803.0	14767.7	14644.4	14646.6	14617.9	14747.9	15455.0	15507.9	15199.5	15380.1	11346.7
45°	14501.2	14485.8	14494.6	14811.8	15155.4	15556.3	16474.9	16567.4	16131.3	16126.9	12062.6
47.5°	13527.5	13496.7	13754.4	14294.1	15089.3	15869.1	17091.7	17234.9	16783.3	16554.2	12512.0
50°	11619.9	11708.0	12115.5	12926.2	14135.5	15439.6	17085.1	17334.0	16807.5	16516.8	12437.1
52.5°	8417.0	8399.4	9291.5	10406.1	11877.6	14065.0	16177.5	16541.0	16219.4	16148.9	12269.7
55°	4579.7	4740.5	5341.8	6817.7	8654.9	11463.5	14104.7	14897.7	15270.0	16014.5	12571.5
57.5°	1683.0	1753.4	2130.1	3174.3	4581.9	7128.3	10774.0	11970.1	13120.0	15640.0	12520.8
60°	678.5	691.7	841.5	1167.5	1925.3	3628.0	6463.1	7524.8	8608.6	11972.3	9608.7
62.5°	493.4	511.1	570.5	682.9	973.6	1586.0	2786.6	3240.3	3542.1	5930.0	4733.9
65°	398.7	411.9	460.4	511.1	643.2	852.5	898.8	865.7	861.3	1533.2	1086.0
67.5°	330.4	343.6	378.9	414.1	462.6	425.1	308.4	323.8	264.3	262.1	213.7
70°	242.3	257.7	293.0	330.4	277.6	114.5	178.4	264.3	200.5	167.4	163.0
72.5°	182.8	193.8	226.9	215.9	81.5	44.1	119.0	191.6	154.2	123.4	121.2
75°	136.6	143.2	114.5	35.2	8.8	11.0	44.1	79.3	85.9	70.5	70.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.6	8.8	11.0	13.2
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



REPORT NUMBER: P640307

CATALOG NUMBER: GWS-SA5D-750-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6
2.5°	2511.2	2418.7	2286.5	2176.4	2092.7	2011.2	1949.5	1887.8	1885.6	1854.8	1848.2
5°	2617.0	2449.5	2207.2	2033.2	1927.5	1863.6	1819.5	1797.5	1786.5	1775.5	1771.1
7.5°	2768.9	2528.8	2194.0	2009.0	1920.9	1879.0	1848.2	1834.9	1828.3	1819.5	1817.3
10°	2956.2	2643.4	2242.5	2055.2	1978.1	1938.5	1905.4	1885.6	1874.6	1859.2	1854.8
12.5°	3180.9	2784.4	2319.6	2132.3	2050.8	1998.0	1953.9	1925.3	1909.8	1890.0	1885.6
15°	3423.2	2936.4	2405.5	2202.8	2105.9	2037.6	1982.5	1938.5	1909.8	1885.6	1879.0
17.5°	3674.3	3090.6	2482.6	2251.3	2132.3	2050.8	1971.5	1912.0	1876.8	1846.0	1837.2
20°	3956.3	3249.2	2533.2	2260.1	2123.5	2015.6	1923.1	1848.2	1812.9	1771.1	1762.3
22.5°	4251.4	3396.7	2555.3	2240.3	2075.1	1949.5	1850.4	1773.3	1722.6	1678.5	1665.3
25°	4537.8	3528.9	2544.3	2185.2	2002.4	1857.0	1755.6	1676.3	1621.3	1577.2	1566.2
27.5°	4841.8	3639.1	2504.6	2103.7	1903.2	1755.6	1658.7	1590.4	1539.8	1491.3	1480.3
30°	5183.2	3740.4	2440.7	2004.6	1786.5	1652.1	1577.2	1531.0	1475.9	1425.2	1409.8
32.5°	5595.2	3830.7	2348.2	1885.6	1683.0	1561.8	1519.9	1484.7	1420.8	1368.0	1356.9
35°	6066.6	3905.6	2231.5	1762.3	1581.6	1504.5	1495.7	1449.5	1365.7	1304.1	1290.9
37.5°	6612.9	3978.3	2092.7	1641.1	1506.7	1478.1	1480.3	1401.0	1299.7	1224.8	1216.0
40°	7201.0	4051.0	1938.5	1535.4	1438.4	1462.7	1442.8	1330.5	1165.3	1092.6	1083.8
42.5°	7813.4	4130.3	1782.1	1436.2	1381.2	1403.2	1374.6	1189.5	1070.6	1033.1	1028.7
45°	8366.3	4225.0	1612.5	1337.1	1323.9	1317.3	1268.8	1077.2	1026.5	1000.1	997.9
47.5°	8765.0	4209.6	1431.8	1242.4	1262.2	1240.2	1092.6	1024.3	982.5	947.2	938.4
50°	8692.3	3940.8	1244.6	1136.7	1182.9	1163.1	982.5	962.6	925.2	887.7	874.5
52.5°	8507.3	3575.2	1081.6	1024.3	1097.0	1050.7	907.6	887.7	854.7	806.2	790.8
55°	8606.4	3231.5	953.8	934.0	1008.9	870.1	823.9	793.0	757.8	704.9	698.3
57.5°	8287.0	2636.8	766.6	779.8	892.1	742.4	722.5	674.1	614.6	579.3	574.9
60°	5736.1	1416.4	480.2	495.6	645.4	623.4	647.6	603.6	530.9	497.8	491.2
62.5°	2634.6	568.3	262.1	251.1	339.2	422.9	555.1	550.7	460.4	407.5	403.1
65°	638.8	259.9	187.2	176.2	191.6	253.3	361.3	434.0	372.3	310.6	304.0
67.5°	207.1	211.5	171.8	160.8	169.6	189.4	215.9	240.1	237.9	218.1	213.7
70°	165.2	191.6	158.6	145.4	145.4	152.0	145.4	116.7	101.3	110.1	114.5
72.5°	123.4	145.4	125.6	112.3	107.9	105.7	90.3	66.1	46.3	41.9	39.7
75°	72.7	81.5	77.1	66.1	61.7	55.1	44.1	28.6	15.4	11.0	6.6
77.5°	13.2	15.4	17.6	13.2	11.0	8.8	6.6	2.2	0.0	0.0	0.0
80°	0.0	2.2	2.2	2.2	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)