

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: P642507

Luminaire Tested: GWS-SA6D-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642507
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-SA6D-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17687.8 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

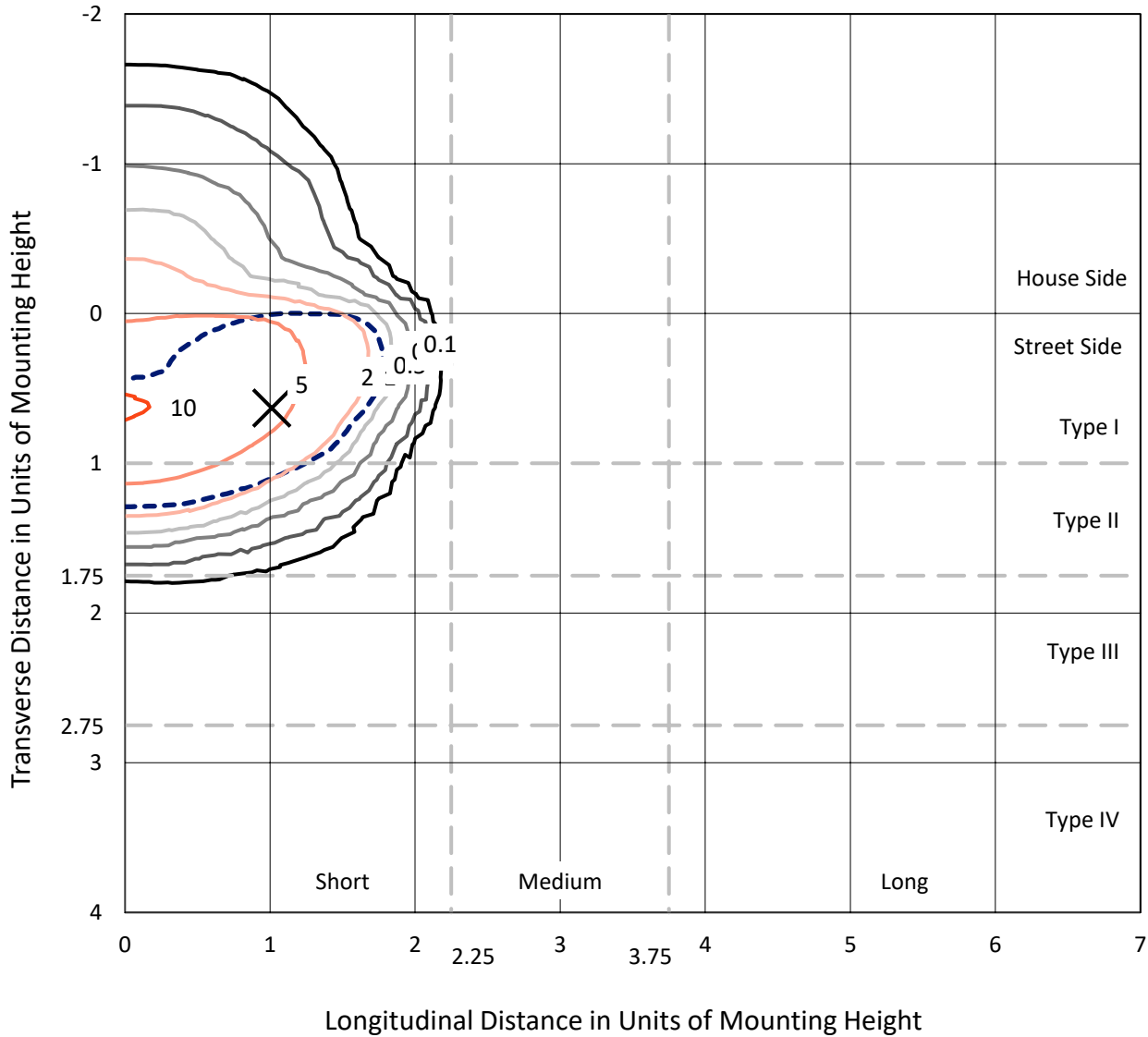
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

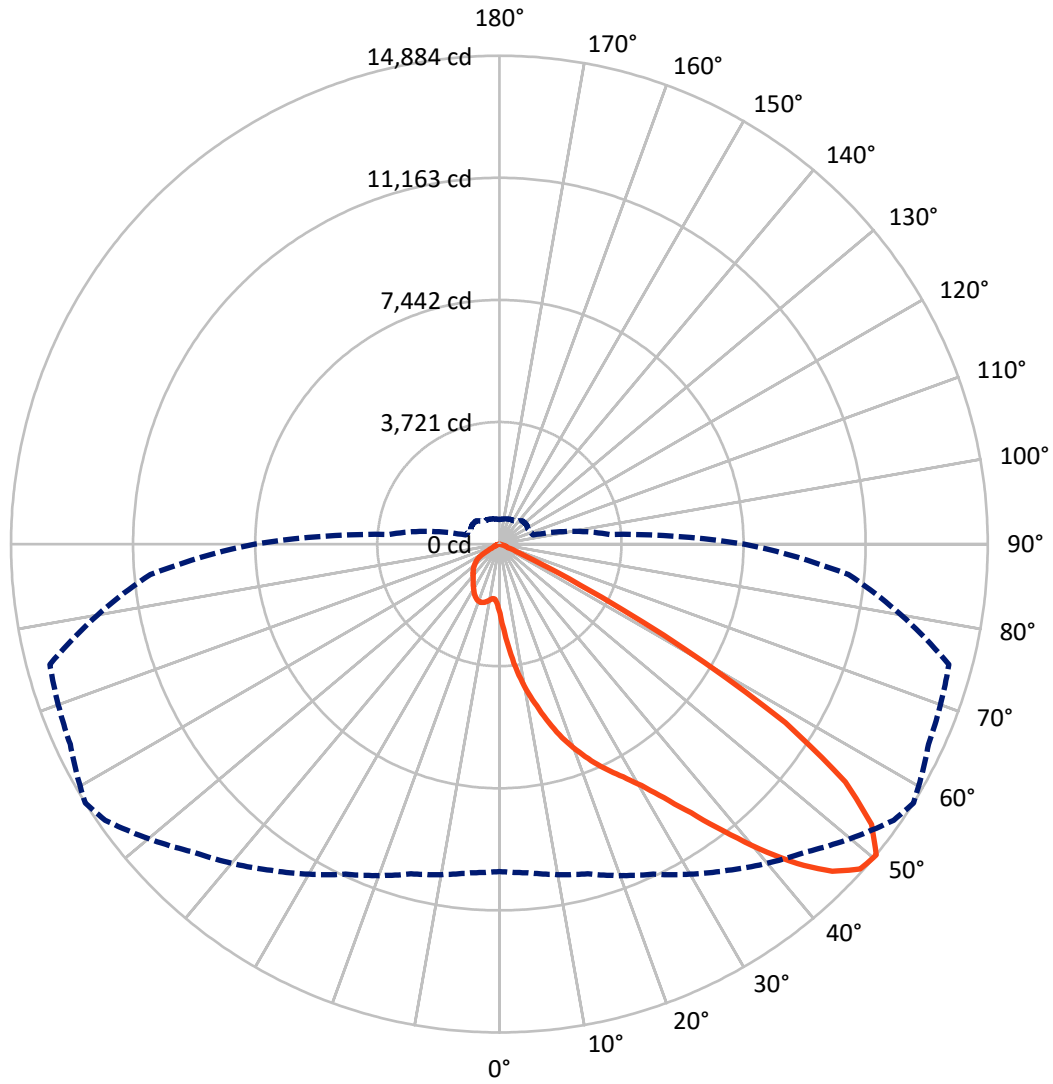
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P642507
CATALOG NUMBER: GWS-SA6D-722-U-T2R-W-GRSBK

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	2477.4	0.0	2477.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15210.4	0.0	15210.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	17687.8	0.0	17687.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	1.5
10°-20°	1036.2	5.9
20°-30°	2096.7	11.9
30°-40°	3709.3	21.0
40°-50°	5407.4	30.6
50°-60°	4334.1	24.5
60°-70°	780.8	4.4
70°-80°	61.5	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°	17687.8	100.0
0°-180°	17687.8	100.0

Coefficient of Utilization



REPORT NUMBER: P642507

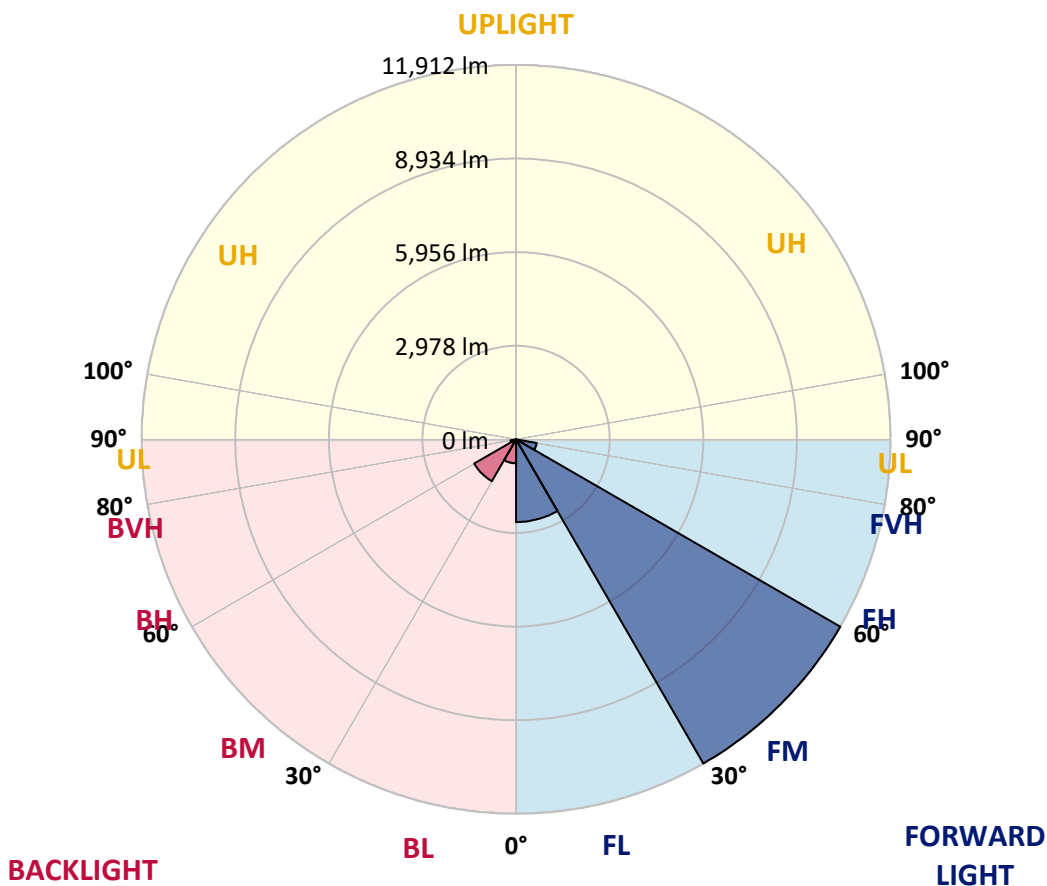
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.9	14.9			
FM (30°-60°)	11912.2	67.3			
FH (60°-80°)	666.3	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	762.7	4.3	B2/1000		
BM (30°-60°)	1538.6	8.7	B2/2500		
BH (60°-80°)	176.1	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: P642507

CATALOG NUMBER: GWS-SA6D-722-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	3126.6	3077.4	3049.1	3026.4	2926.1	2767.2	2663.2	2608.3	2517.6	2364.3	2231.9
5°	4079.9	4044.0	3977.8	3932.4	3803.8	3578.7	3346.0	3253.3	3047.2	2701.0	2390.8
7.5°	4711.7	4685.2	4660.6	4600.1	4479.0	4274.7	4017.5	3921.0	3603.3	3111.5	2602.7
10°	5197.8	5177.0	5148.6	5146.7	5052.1	4868.7	4617.1	4516.8	4172.6	3557.9	2852.3
12.5°	5625.2	5608.2	5602.5	5655.5	5595.0	5458.8	5186.4	5061.6	4696.5	4013.7	3128.5
15°	5918.4	5914.6	5939.2	6043.3	6077.3	6014.9	5786.0	5651.7	5231.8	4471.4	3433.0
17.5°	6052.7	6064.1	6111.4	6291.0	6442.4	6495.3	6319.4	6205.9	5763.3	4934.9	3758.4
20°	6281.6	6277.8	6306.2	6476.4	6661.8	6850.9	6798.0	6701.5	6300.5	5424.7	4119.6
22.5°	6926.6	6871.7	6811.2	6837.7	6903.9	7125.2	7223.5	7174.4	6854.7	5927.9	4492.3
25°	7917.7	7861.0	7666.1	7477.0	7352.2	7452.4	7586.7	7611.3	7405.1	6444.3	4881.9
27.5°	8969.4	8918.3	8698.9	8415.2	8057.7	7883.7	7983.9	8033.1	7946.1	7059.0	5296.1
30°	9954.8	9886.7	9646.5	9294.7	8880.5	8613.8	8500.3	8534.3	8585.4	7787.2	5782.2
32.5°	10809.8	10758.7	10471.2	10100.5	9701.4	9423.3	9158.5	9215.3	9340.1	8678.1	6404.5
35°	11534.2	11507.7	11203.2	10834.4	10412.6	10270.7	10043.7	10055.1	10179.9	9754.3	7163.0
37.5°	12164.1	12118.7	11842.5	11500.2	11165.4	11142.7	11080.3	11085.9	11150.2	11008.4	8035.0
40°	12561.3	12519.7	12323.0	12111.1	11872.8	11876.6	12200.0	12224.6	12150.8	12239.7	8956.1
42.5°	12710.7	12680.4	12574.5	12576.4	12551.8	12663.4	13270.6	13316.0	13051.2	13206.3	9743.0
45°	12451.6	12438.3	12445.9	12718.3	13013.3	13357.6	14146.3	14225.8	13851.3	13847.5	10357.7
47.5°	11615.5	11589.1	11810.4	12273.8	12956.6	13626.2	14676.0	14798.9	14411.1	14214.4	10743.6
50°	9977.5	10053.2	10403.1	11099.2	12137.6	13257.3	14670.3	14884.0	14432.0	14182.3	10679.3
52.5°	7227.3	7212.2	7978.2	8935.3	10198.8	12077.1	13891.0	14203.1	13926.9	13866.4	10535.5
55°	3932.4	4070.5	4586.8	5854.1	7431.6	9843.2	12111.1	12792.0	13111.7	13751.0	10794.6
57.5°	1445.1	1505.6	1829.1	2725.6	3934.3	6120.8	9251.2	10278.3	11265.6	13429.5	10751.1
60°	582.6	593.9	722.5	1002.5	1653.1	3115.3	5549.6	6461.3	7391.9	10280.2	8250.6
62.5°	423.7	438.8	489.9	586.4	836.0	1361.9	2392.7	2782.4	3041.5	5091.9	4064.8
65°	342.4	353.7	395.3	438.8	552.3	732.0	771.7	743.3	739.6	1316.5	932.5
67.5°	283.7	295.1	325.3	355.6	397.2	365.1	264.8	278.0	227.0	225.1	183.5
70°	208.1	221.3	251.6	283.7	238.3	98.4	153.2	227.0	172.1	143.8	140.0
72.5°	157.0	166.4	194.8	185.4	70.0	37.8	102.1	164.6	132.4	105.9	104.0
75°	117.3	122.9	98.4	30.3	7.6	9.5	37.8	68.1	73.8	60.5	60.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	5.7	7.6	9.5	11.3
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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CATALOG NUMBER: GWS-SA6D-722-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2156.3	2076.8	1963.4	1868.8	1796.9	1726.9	1674.0	1621.0	1619.1	1592.6	1586.9
5°	2247.1	2103.3	1895.3	1745.8	1655.0	1600.2	1562.4	1543.4	1534.0	1524.5	1520.7
7.5°	2377.6	2171.4	1883.9	1725.0	1649.4	1613.4	1586.9	1575.6	1569.9	1562.4	1560.5
10°	2538.4	2269.8	1925.5	1764.7	1698.5	1664.5	1636.1	1619.1	1609.6	1596.4	1592.6
12.5°	2731.3	2390.8	1991.7	1830.9	1761.0	1715.6	1677.7	1653.1	1639.9	1622.9	1619.1
15°	2939.4	2521.3	2065.5	1891.5	1808.2	1749.6	1702.3	1664.5	1639.9	1619.1	1613.4
17.5°	3155.0	2653.7	2131.7	1933.1	1830.9	1761.0	1692.9	1641.8	1611.5	1585.1	1577.5
20°	3397.1	2789.9	2175.2	1940.7	1823.4	1730.7	1651.3	1586.9	1556.7	1520.7	1513.2
22.5°	3650.5	2916.7	2194.1	1923.6	1781.8	1674.0	1588.8	1522.6	1479.1	1441.3	1430.0
25°	3896.4	3030.1	2184.7	1876.3	1719.4	1594.5	1507.5	1439.4	1392.1	1354.3	1344.8
27.5°	4157.5	3124.7	2150.6	1806.4	1634.2	1507.5	1424.3	1365.6	1322.1	1280.5	1271.1
30°	4450.6	3211.7	2095.8	1721.2	1534.0	1418.6	1354.3	1314.6	1267.3	1223.8	1210.5
32.5°	4804.3	3289.3	2016.3	1619.1	1445.1	1341.1	1305.1	1274.9	1220.0	1174.6	1165.1
35°	5209.1	3353.6	1916.1	1513.2	1358.1	1291.9	1284.3	1244.6	1172.7	1119.8	1108.4
37.5°	5678.2	3416.0	1796.9	1409.1	1293.8	1269.2	1271.1	1203.0	1116.0	1051.7	1044.1
40°	6183.2	3478.4	1664.5	1318.4	1235.1	1255.9	1238.9	1142.5	1000.6	938.2	930.6
42.5°	6709.1	3546.5	1530.2	1233.2	1186.0	1204.9	1180.3	1021.4	919.3	887.1	883.3
45°	7183.8	3627.8	1384.6	1148.1	1136.8	1131.1	1089.5	924.9	881.4	858.7	856.8
47.5°	7526.2	3614.6	1229.5	1066.8	1083.8	1064.9	938.2	879.5	843.6	813.3	805.8
50°	7463.8	3383.8	1068.7	976.0	1015.7	998.7	843.6	826.6	794.4	762.3	750.9
52.5°	7304.9	3069.9	928.7	879.5	942.0	902.2	779.3	762.3	733.9	692.3	679.0
55°	7390.0	2774.8	819.0	802.0	866.3	747.1	707.4	680.9	650.7	605.3	599.6
57.5°	7115.7	2264.1	658.2	669.6	766.0	637.4	620.4	578.8	527.7	497.5	493.7
60°	4925.4	1216.2	412.3	425.6	554.2	535.3	556.1	518.3	455.8	427.5	421.8
62.5°	2262.2	488.0	225.1	215.6	291.3	363.2	476.7	472.9	395.3	349.9	346.1
65°	548.5	223.2	160.8	151.3	164.6	217.5	310.2	372.6	319.7	266.7	261.0
67.5°	177.8	181.6	147.5	138.1	145.6	162.7	185.4	206.2	204.3	187.3	183.5
70°	141.9	164.6	136.2	124.8	124.8	130.5	124.8	100.2	87.0	94.6	98.4
72.5°	105.9	124.8	107.8	96.5	92.7	90.8	77.6	56.7	39.7	35.9	34.0
75°	62.4	70.0	66.2	56.7	53.0	47.3	37.8	24.6	13.2	9.5	5.7
77.5°	11.3	13.2	15.1	11.3	9.5	7.6	5.7	1.9	0.0	0.0	0.0
80°	0.0	1.9	1.9	1.9	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)