

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: P638547

Luminaire Tested: GWS-SA4F-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638547  
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-SA4F-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**

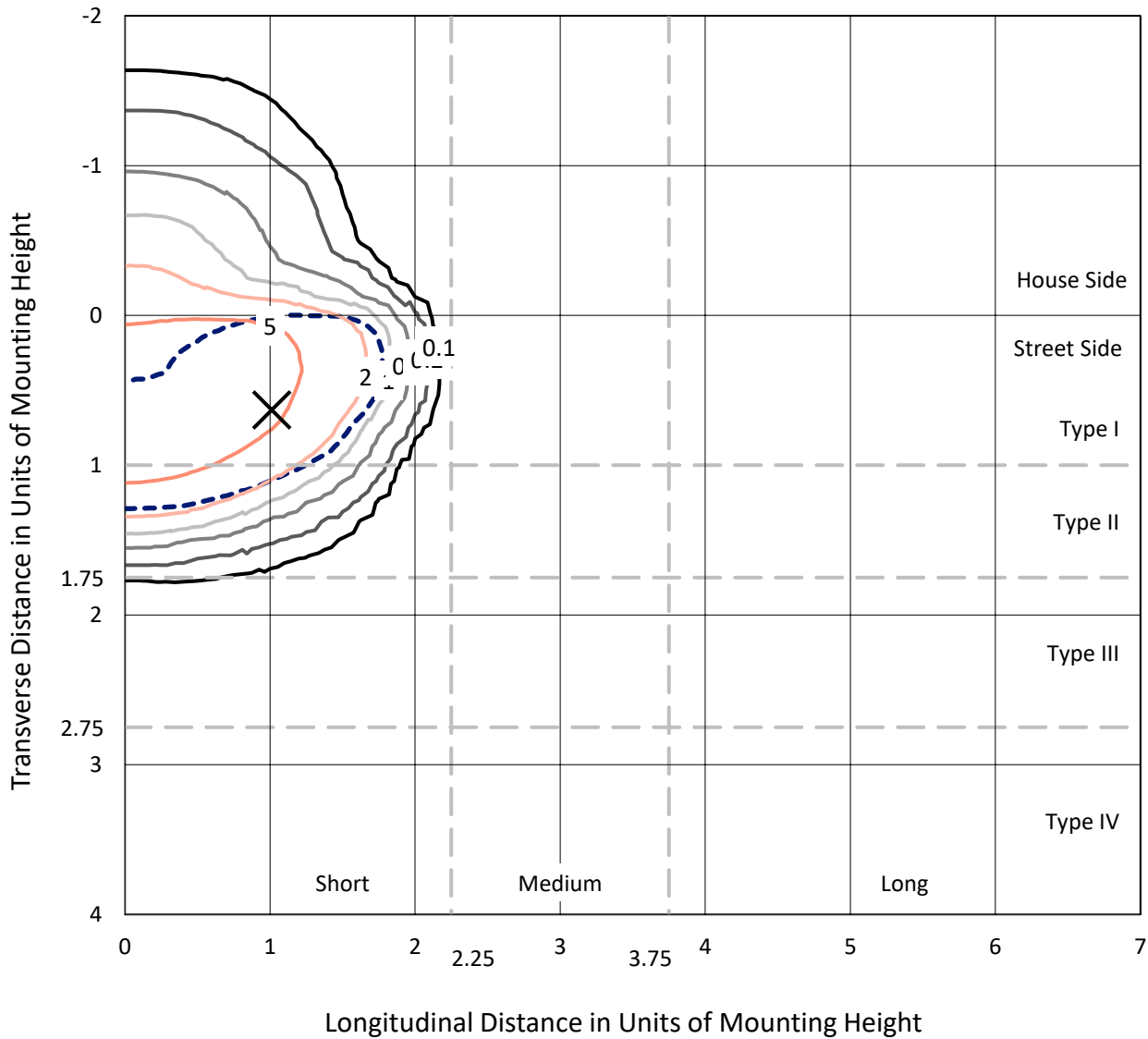
Lumens per Lamp: N/A  
Luminaire Lumens: 16800.5 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

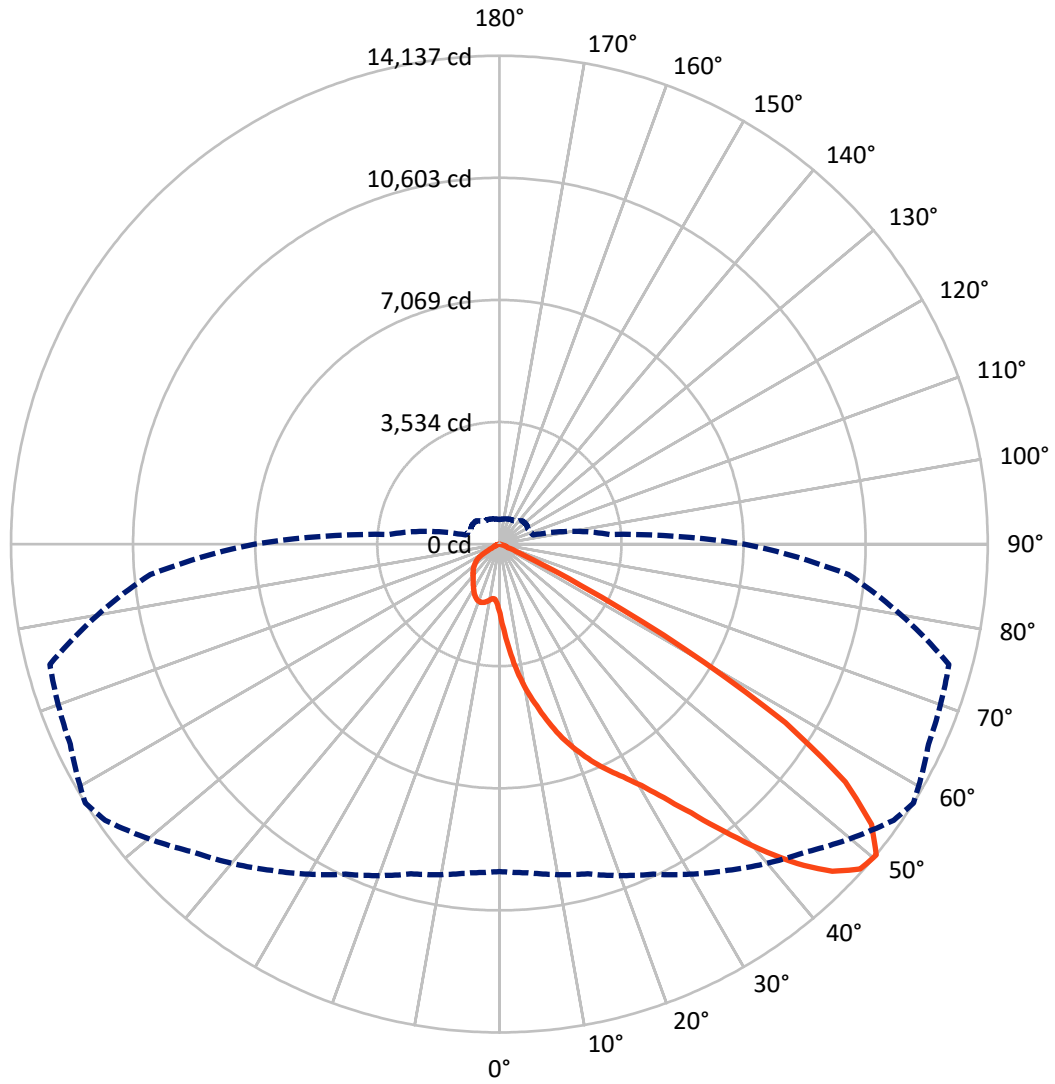
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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
<b>House Side</b>	Lumens	2353.1	0.0	2353.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14447.4	0.0	14447.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16800.5	0.0	16800.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.6	1.5
10°-20°	984.2	5.9
20°-30°	1991.5	11.9
30°-40°	3523.2	21.0
40°-50°	5136.1	30.6
50°-60°	4116.7	24.5
60°-70°	741.7	4.4
70°-80°	58.5	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°	16800.5	100.0
0°-180°	16800.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638547

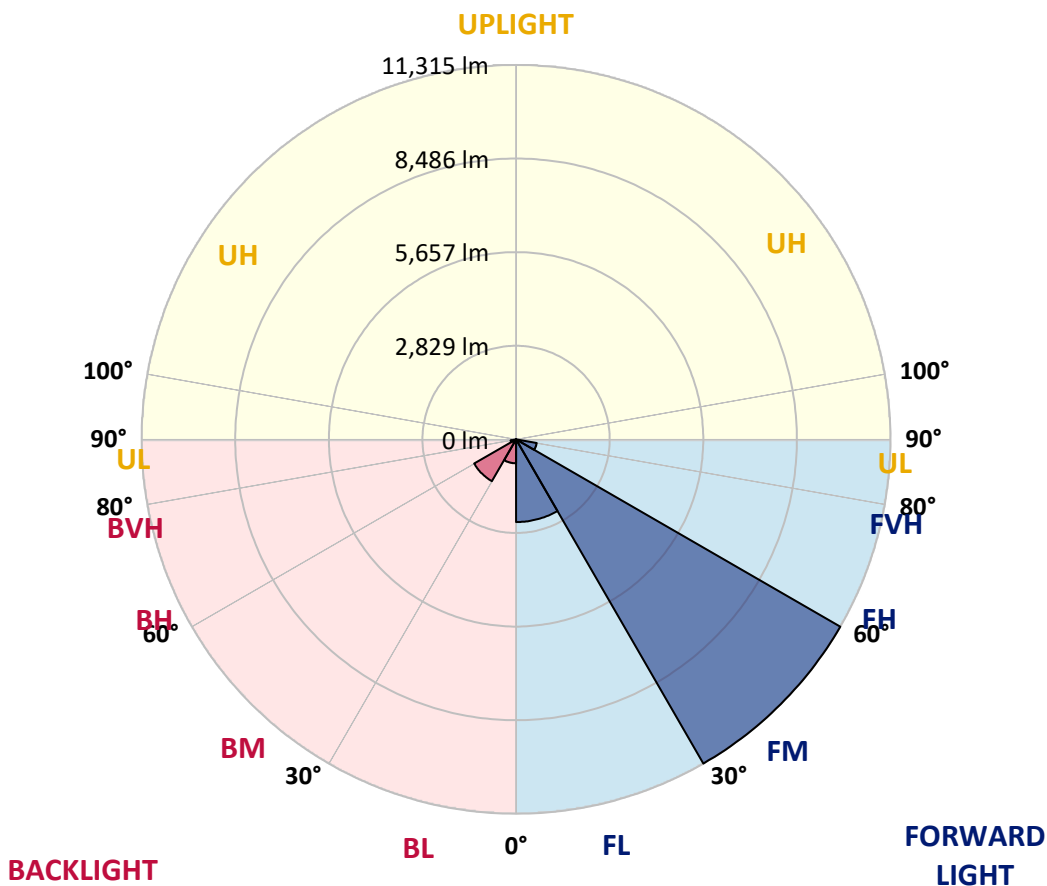
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.9	14.9			
FM (30°-60°)	11314.6	67.3			
FH (60°-80°)	632.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	724.4	4.3	B2/1000		
BM (30°-60°)	1461.4	8.7	B2/2500		
BH (60°-80°)	167.2	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: P638547

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8
2.5°	2969.8	2923.1	2896.1	2874.5	2779.3	2628.4	2529.6	2477.5	2391.3	2245.7	2120.0
5°	3875.2	3841.1	3778.2	3735.1	3612.9	3399.1	3178.2	3090.1	2894.3	2565.5	2270.9
7.5°	4475.3	4450.2	4426.8	4369.3	4254.3	4060.3	3816.0	3724.3	3422.5	2955.4	2472.1
10°	4937.0	4917.3	4890.3	4888.5	4798.7	4624.4	4385.5	4290.3	3963.3	3379.4	2709.3
12.5°	5343.1	5326.9	5321.5	5371.8	5314.3	5185.0	4926.2	4807.7	4460.9	3812.4	2971.6
15°	5621.5	5617.9	5641.3	5740.1	5772.4	5713.2	5495.8	5368.2	4969.4	4247.1	3260.8
17.5°	5749.1	5759.9	5804.8	5975.5	6119.2	6169.5	6002.4	5894.6	5474.2	4687.3	3569.8
20°	5966.5	5962.9	5989.8	6151.5	6327.6	6507.2	6456.9	6365.3	5984.4	5152.6	3913.0
22.5°	6579.1	6527.0	6469.5	6494.7	6557.6	6767.8	6861.2	6814.5	6510.8	5630.5	4266.9
25°	7520.5	7466.6	7281.6	7101.9	6983.3	7078.6	7206.1	7229.5	7033.6	6121.0	4637.0
27.5°	8519.4	8470.9	8262.5	7993.0	7653.5	7488.2	7583.4	7630.1	7547.5	6704.9	5030.5
30°	9455.5	9390.8	9162.6	8828.4	8435.0	8181.7	8073.9	8106.2	8154.7	7396.6	5492.2
32.5°	10267.5	10219.0	9945.9	9593.8	9214.7	8950.6	8699.1	8753.0	8871.6	8242.8	6083.3
35°	10955.6	10930.5	10641.2	10290.9	9890.2	9755.5	9539.9	9550.7	9669.2	9265.0	6803.7
37.5°	11553.9	11510.8	11248.4	10923.3	10605.3	10583.7	10524.4	10529.8	10590.9	10456.2	7631.9
40°	11931.2	11891.6	11704.8	11503.6	11277.2	11280.8	11588.0	11611.4	11541.3	11625.7	8506.9
42.5°	12073.1	12044.3	11943.7	11945.5	11922.2	12028.2	12604.9	12648.0	12396.5	12543.8	9254.2
45°	11827.0	11814.4	11821.6	12080.3	12360.5	12687.5	13436.7	13512.2	13156.4	13152.8	9838.1
47.5°	11032.9	11007.7	11217.9	11658.1	12306.6	12942.6	13939.7	14056.5	13688.2	13501.4	10204.6
50°	9477.0	9548.9	9881.2	10542.4	11528.7	12592.3	13934.4	14137.4	13708.0	13470.8	10143.5
52.5°	6864.8	6850.4	7578.0	8487.1	9687.2	11471.2	13194.2	13490.6	13228.3	13170.8	10007.0
55°	3735.1	3866.3	4356.7	5560.4	7058.8	9349.5	11503.6	12150.3	12454.0	13061.2	10253.1
57.5°	1372.6	1430.1	1737.3	2588.9	3736.9	5813.8	8787.1	9762.7	10700.5	12755.8	10211.8
60°	553.3	564.1	686.3	952.2	1570.2	2959.0	5271.2	6137.2	7021.1	9764.5	7836.7
62.5°	402.4	416.8	465.3	556.9	794.1	1293.5	2272.7	2642.8	2888.9	4836.4	3860.9
65°	325.2	336.0	375.5	416.8	524.6	695.3	733.0	706.1	702.5	1250.4	885.7
67.5°	269.5	280.3	309.0	337.8	377.3	346.7	251.5	264.1	215.6	213.8	174.3
70°	197.6	210.2	238.9	269.5	226.4	93.4	145.5	215.6	163.5	136.5	132.9
72.5°	149.1	158.1	185.0	176.1	66.5	35.9	97.0	156.3	125.8	100.6	98.8
75°	111.4	116.8	93.4	28.7	7.2	9.0	35.9	64.7	70.1	57.5	57.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.4	7.2	9.0	10.8
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°	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8
2.5°	2048.1	1972.7	1864.9	1775.0	1706.8	1640.3	1590.0	1539.7	1537.9	1512.7	1507.3
5°	2134.3	1997.8	1800.2	1658.3	1572.0	1519.9	1484.0	1466.0	1457.0	1448.1	1444.5
7.5°	2258.3	2062.5	1789.4	1638.5	1566.6	1532.5	1507.3	1496.6	1491.2	1484.0	1482.2
10°	2411.0	2155.9	1828.9	1676.2	1613.3	1581.0	1554.1	1537.9	1528.9	1516.3	1512.7
12.5°	2594.3	2270.9	1891.8	1739.1	1672.6	1629.5	1593.6	1570.2	1557.6	1541.5	1537.9
15°	2791.9	2394.9	1961.9	1796.6	1717.5	1661.8	1616.9	1581.0	1557.6	1537.9	1532.5
17.5°	2996.7	2520.6	2024.8	1836.1	1739.1	1672.6	1607.9	1559.4	1530.7	1505.5	1498.4
20°	3226.7	2650.0	2066.1	1843.3	1731.9	1643.9	1568.4	1507.3	1478.6	1444.5	1437.3
22.5°	3467.4	2770.3	2084.0	1827.1	1692.4	1590.0	1509.1	1446.3	1404.9	1369.0	1358.2
25°	3701.0	2878.1	2075.1	1782.2	1633.1	1514.5	1431.9	1367.2	1322.3	1286.4	1277.4
27.5°	3948.9	2968.0	2042.7	1715.7	1552.3	1431.9	1352.8	1297.1	1255.8	1216.3	1207.3
30°	4227.4	3050.6	1990.6	1634.9	1457.0	1347.4	1286.4	1248.6	1203.7	1162.4	1149.8
32.5°	4563.3	3124.3	1915.2	1537.9	1372.6	1273.8	1239.6	1210.9	1158.8	1115.7	1106.7
35°	4947.8	3185.4	1819.9	1437.3	1290.0	1227.1	1219.9	1182.2	1113.9	1063.6	1052.8
37.5°	5393.4	3244.6	1706.8	1338.5	1228.9	1205.5	1207.3	1142.6	1060.0	998.9	991.7
40°	5873.1	3303.9	1581.0	1252.2	1173.2	1192.9	1176.8	1085.1	950.4	891.1	883.9
42.5°	6372.5	3368.6	1453.4	1171.4	1126.5	1144.4	1121.1	970.2	873.1	842.6	839.0
45°	6823.4	3445.9	1315.1	1090.5	1079.8	1074.4	1034.8	878.5	837.2	815.7	813.9
47.5°	7148.6	3433.3	1167.8	1013.3	1029.4	1011.5	891.1	835.4	801.3	772.5	765.3
50°	7089.3	3214.1	1015.1	927.0	964.8	948.6	801.3	785.1	754.6	724.0	713.2
52.5°	6938.4	2915.9	882.1	835.4	894.7	857.0	740.2	724.0	697.1	657.6	645.0
55°	7019.3	2635.6	777.9	761.8	822.8	709.7	671.9	646.8	618.0	574.9	569.5
57.5°	6758.8	2150.5	625.2	636.0	727.6	605.5	589.3	549.8	501.2	472.5	468.9
60°	4678.3	1155.2	391.7	404.2	526.4	508.4	528.2	492.3	433.0	406.0	400.6
62.5°	2148.7	463.5	213.8	204.8	276.7	344.9	452.7	449.1	375.5	332.4	328.8
65°	521.0	212.0	152.7	143.7	156.3	206.6	294.6	353.9	303.6	253.3	247.9
67.5°	168.9	172.5	140.1	131.2	138.3	154.5	176.1	195.8	194.0	177.9	174.3
70°	134.7	156.3	129.4	118.6	118.6	124.0	118.6	95.2	82.6	89.8	93.4
72.5°	100.6	118.6	102.4	91.6	88.0	86.2	73.7	53.9	37.7	34.1	32.3
75°	59.3	66.5	62.9	53.9	50.3	44.9	35.9	23.4	12.6	9.0	5.4
77.5°	10.8	12.6	14.4	10.8	9.0	7.2	5.4	1.8	0.0	0.0	0.0
80°	0.0	1.8	1.8	1.8	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)