

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: P636840

Luminaire Tested: GWS-SA4B-750-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

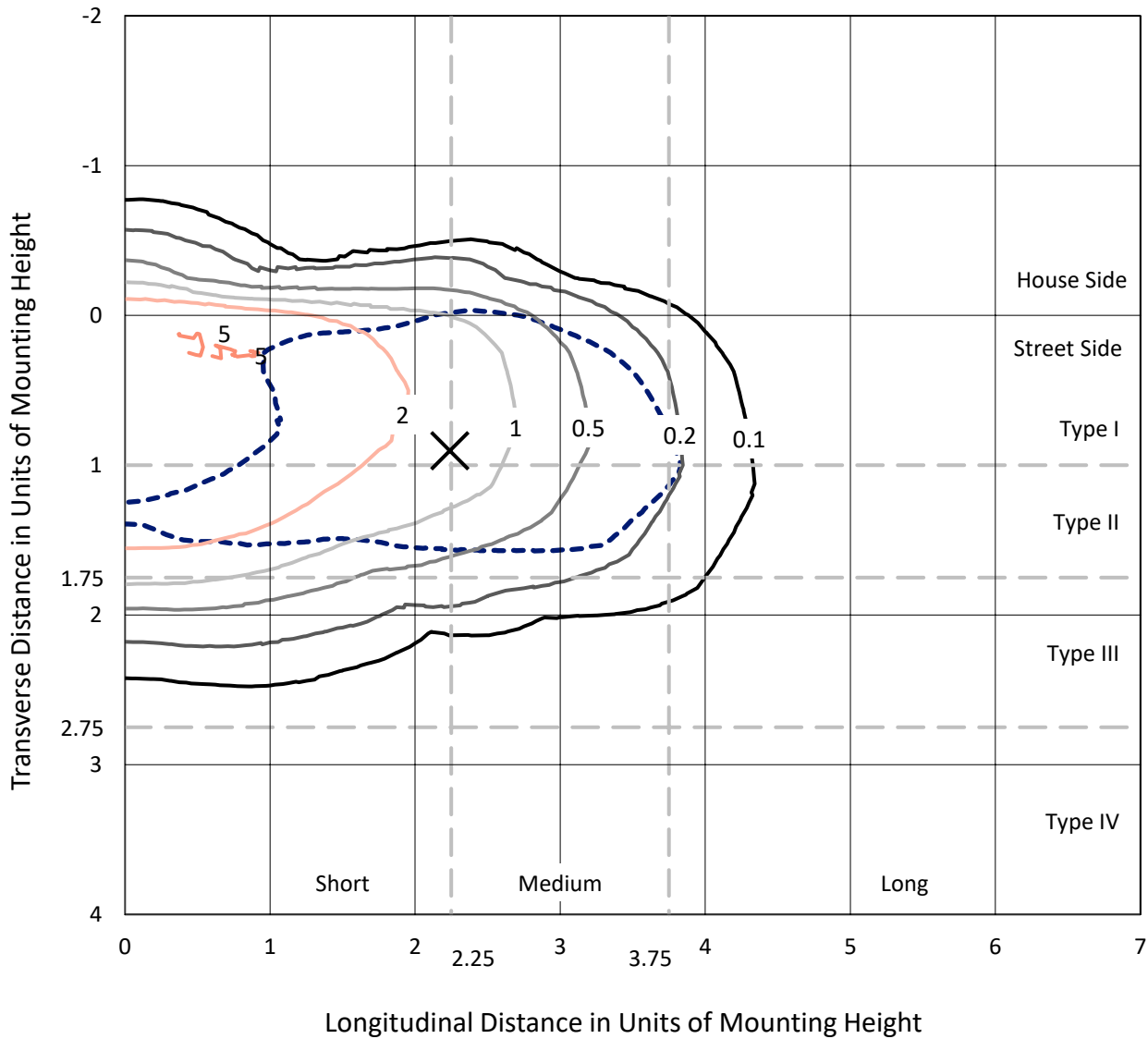
Lumens per Lamp: N/A  
Luminaire Lumens: 11090.6 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

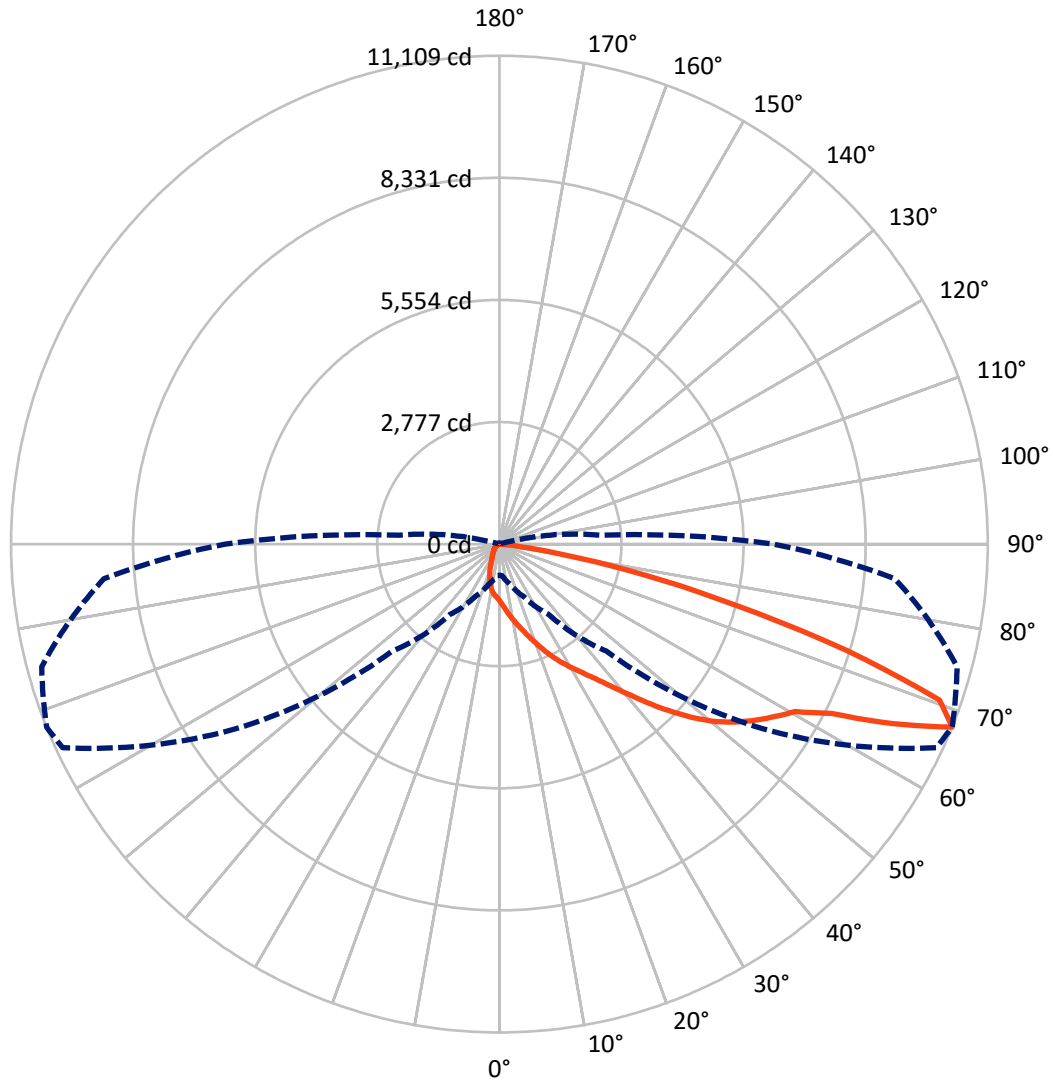
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	800.9	0.0	800.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10289.7	0.0	10289.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11090.6	0.0	11090.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.9	1.1
10°-20°	361.5	3.3
20°-30°	621.2	5.6
30°-40°	1080.1	9.7
40°-50°	1884.6	17.0
50°-60°	2842.4	25.6
60°-70°	2850.2	25.7
70°-80°	1257.5	11.3
80°-90°	67.2	0.6
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°	11090.6	100.0
0°-180°	11090.6	100.0

**Coefficient of Utilization**



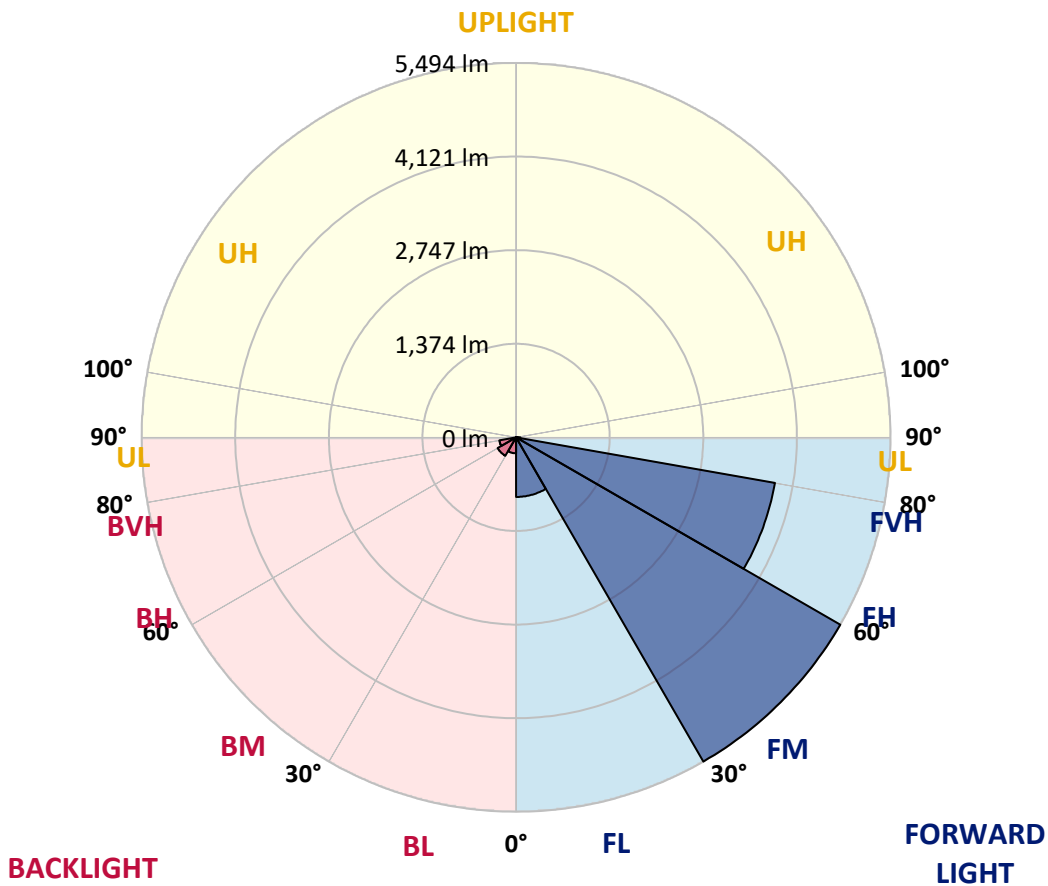
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.3	7.9			
FM (30°-60°)	5494.3	49.5			
FH (60°-80°)	3857.8	34.8			G2/5000
FVH (80°-90°)	63.4	0.6			G1/100
BL (0°-30°)	234.3	2.1	B1/500		
BM (30°-60°)	312.8	2.8	B1/1000		
BH (60°-80°)	249.9	2.3	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7
2.5°	1502.9	1512.5	1502.9	1505.1	1477.5	1464.7	1437.1	1398.9	1389.4	1365.0	1327.8
5°	1686.6	1695.1	1685.5	1683.4	1651.5	1628.2	1582.5	1516.7	1497.6	1449.9	1376.6
7.5°	1786.3	1791.6	1794.8	1800.1	1788.5	1769.4	1728.0	1646.2	1626.1	1548.6	1445.6
10°	1797.0	1801.2	1817.1	1849.0	1872.3	1884.0	1860.6	1785.3	1753.4	1678.1	1530.5
12.5°	1767.2	1773.6	1799.1	1852.1	1916.9	1976.3	1991.2	1925.4	1896.7	1800.1	1630.3
15°	1728.0	1733.3	1768.3	1840.5	1938.1	2047.4	2109.0	2080.3	2048.5	1947.7	1740.7
17.5°	1667.5	1674.9	1723.7	1821.4	1947.7	2103.7	2236.4	2245.9	2223.6	2114.3	1862.8
20°	1633.5	1638.8	1682.3	1783.2	1941.3	2145.1	2355.2	2445.5	2421.1	2306.4	2002.9
22.5°	1662.2	1666.4	1695.1	1773.6	1920.1	2168.4	2465.6	2645.0	2631.2	2512.3	2150.4
25°	1812.9	1826.7	1809.7	1823.5	1929.6	2181.2	2554.8	2844.6	2847.7	2727.8	2303.2
27.5°	2118.6	2100.5	2060.2	1991.2	2003.9	2215.1	2631.2	3032.4	3060.0	2938.0	2439.1
30°	2429.5	2418.9	2394.5	2287.3	2198.2	2290.5	2696.0	3224.5	3268.1	3144.9	2560.1
32.5°	2778.7	2789.4	2745.8	2617.4	2465.6	2443.3	2762.8	3407.1	3488.8	3379.5	2702.3
35°	3195.9	3199.1	3113.1	2970.9	2798.9	2696.0	2882.8	3608.8	3759.5	3678.8	2892.3
37.5°	3602.4	3621.5	3574.8	3350.8	3198.0	3010.1	3081.2	3867.7	4080.0	4048.2	3131.1
40°	3962.2	3991.9	3977.1	3760.5	3559.9	3401.8	3389.1	4171.3	4467.4	4503.5	3446.4
42.5°	4248.8	4267.9	4279.6	4125.7	3948.4	3859.3	3769.0	4523.7	4924.9	5072.4	3832.7
45°	4551.3	4557.7	4582.1	4478.1	4323.1	4330.5	4218.0	4951.4	5406.8	5702.9	4276.4
47.5°	4936.6	4957.8	4946.1	4836.8	4696.7	4780.6	4681.8	5391.9	5882.3	6375.8	4730.7
50°	5405.7	5428.0	5417.4	5290.0	5134.0	5169.0	5107.5	5819.7	6340.8	7010.6	5108.5
52.5°	5647.7	5665.8	5797.4	5854.7	5773.0	5550.1	5470.5	6289.9	6728.2	7532.8	5455.6
55°	5531.0	5543.7	5830.3	6072.3	6371.6	6148.7	5835.6	6652.9	7070.0	7940.3	5713.5
57.5°	5047.0	5116.0	5505.5	5915.2	6544.6	6739.9	6427.8	7047.7	7399.0	8223.7	5967.2
60°	4054.6	4051.4	4609.7	5345.2	6207.1	6902.3	7264.2	7581.6	7729.1	8441.3	6306.8
62.5°	2240.6	2260.8	3003.8	3972.8	5268.8	6482.0	7891.5	8503.9	8481.7	8821.3	6838.6
65°	1115.5	1155.9	1559.2	2275.6	3505.8	5356.9	7999.8	9911.4	9847.7	9716.1	7937.2
67.5°	708.0	723.9	946.8	1322.5	1948.7	3443.2	7325.8	10961.1	11108.6	10777.5	9027.2
70°	458.5	485.1	658.1	904.3	1176.0	1774.7	5366.4	10280.7	10619.3	10660.7	8347.9
72.5°	249.4	268.5	420.3	645.3	849.1	887.3	3014.4	7715.3	8259.8	9043.1	6530.8
75°	142.2	156.0	230.3	438.4	623.0	540.3	1336.3	5164.8	5511.9	6462.9	4679.7
77.5°	86.0	97.6	129.5	213.3	390.6	360.9	505.2	3143.9	3364.6	3856.1	2456.1
80°	39.3	46.7	81.7	117.8	213.3	170.9	193.2	1465.8	1513.6	1582.5	813.0
82.5°	18.0	21.2	37.1	70.1	121.0	98.7	74.3	338.6	476.6	451.1	207.0
85°	2.1	2.1	13.8	28.7	34.0	25.5	30.8	76.4	96.6	135.9	59.4
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	6.4	9.6	13.8	22.3	14.9
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°	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7
2.5°	1310.8	1281.1	1254.6	1215.3	1188.8	1159.1	1138.9	1114.5	1104.9	1097.5	1086.9
5°	1340.5	1292.8	1228.0	1155.9	1096.4	1040.2	988.2	954.2	924.5	920.2	905.4
7.5°	1389.4	1318.3	1208.9	1091.1	990.3	896.9	823.6	764.2	734.5	724.9	708.0
10°	1454.1	1356.5	1180.3	999.8	854.4	743.0	660.2	593.3	546.6	529.6	516.9
12.5°	1526.3	1391.5	1134.6	887.3	721.8	594.4	489.3	418.2	388.5	377.9	368.3
15°	1609.1	1424.4	1062.5	774.8	592.3	437.3	363.0	332.2	319.5	316.3	313.1
17.5°	1688.7	1445.6	976.5	658.1	455.3	339.6	304.6	292.9	289.8	286.6	284.5
20°	1778.9	1460.5	875.7	547.7	353.4	287.6	270.7	262.2	255.8	249.4	248.4
22.5°	1871.3	1460.5	766.3	439.4	296.1	257.9	238.8	222.9	211.2	204.9	202.7
25°	1959.3	1440.3	658.1	351.3	261.1	229.3	204.9	186.8	170.9	163.5	161.3
27.5°	2022.0	1388.3	563.6	297.2	236.7	203.8	174.1	153.9	141.2	133.7	132.7
30°	2061.2	1310.8	476.6	265.4	215.5	177.3	147.5	130.6	121.0	115.7	113.6
32.5°	2091.0	1215.3	399.1	243.1	195.3	153.9	128.4	114.6	106.1	101.9	100.8
35°	2150.4	1125.1	341.8	222.9	174.1	134.8	112.5	101.9	95.5	90.2	89.2
37.5°	2233.2	1049.7	296.1	204.9	153.9	119.9	101.9	92.3	87.0	81.7	80.7
40°	2355.2	1002.0	262.2	186.8	135.9	108.3	93.4	84.9	77.5	72.2	71.1
42.5°	2543.1	979.7	239.9	168.8	119.9	97.6	86.0	75.4	67.9	62.6	61.6
45°	2767.1	991.3	220.8	150.7	109.3	90.2	76.4	65.8	58.4	53.1	52.0
47.5°	3006.9	1032.7	204.9	133.7	98.7	82.8	67.9	56.3	49.9	44.6	43.5
50°	3257.4	1100.7	191.1	117.8	90.2	74.3	58.4	48.8	42.5	38.2	37.1
52.5°	3475.0	1193.0	177.3	106.1	82.8	65.8	50.9	42.5	36.1	31.8	30.8
55°	3683.1	1280.0	166.6	95.5	74.3	57.3	44.6	36.1	30.8	26.5	25.5
57.5°	3909.1	1372.4	153.9	86.0	66.9	50.9	39.3	30.8	26.5	22.3	21.2
60°	4238.2	1509.3	134.8	78.5	58.4	44.6	34.0	27.6	23.4	18.0	17.0
62.5°	4712.6	1758.7	113.6	67.9	49.9	38.2	28.7	23.4	19.1	14.9	12.7
65°	5600.0	2183.3	93.4	56.3	40.3	31.8	24.4	19.1	14.9	10.6	9.6
67.5°	6238.9	2293.7	75.4	45.6	32.9	24.4	20.2	14.9	10.6	7.4	6.4
70°	5454.5	1647.3	58.4	37.1	27.6	19.1	15.9	11.7	7.4	5.3	4.2
72.5°	4109.7	1076.3	43.5	28.7	21.2	15.9	11.7	9.6	6.4	4.2	3.2
75°	2896.6	622.0	31.8	21.2	14.9	11.7	9.6	7.4	5.3	3.2	3.2
77.5°	1484.9	256.9	22.3	14.9	10.6	7.4	6.4	4.2	4.2	3.2	2.1
80°	451.1	84.9	12.7	9.6	7.4	5.3	3.2	3.2	3.2	2.1	1.1
82.5°	103.0	27.6	7.4	7.4	5.3	4.2	3.2	1.1	1.1	0.0	0.0
85°	26.5	8.5	6.4	5.3	5.3	4.2	2.1	1.1	0.0	0.0	0.0
87.5°	9.6	5.3	5.3	5.3	4.2	3.2	2.1	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)