

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: P633375

Luminaire Tested: GWS-SA2E-750-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633375  
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-SA2E-750-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

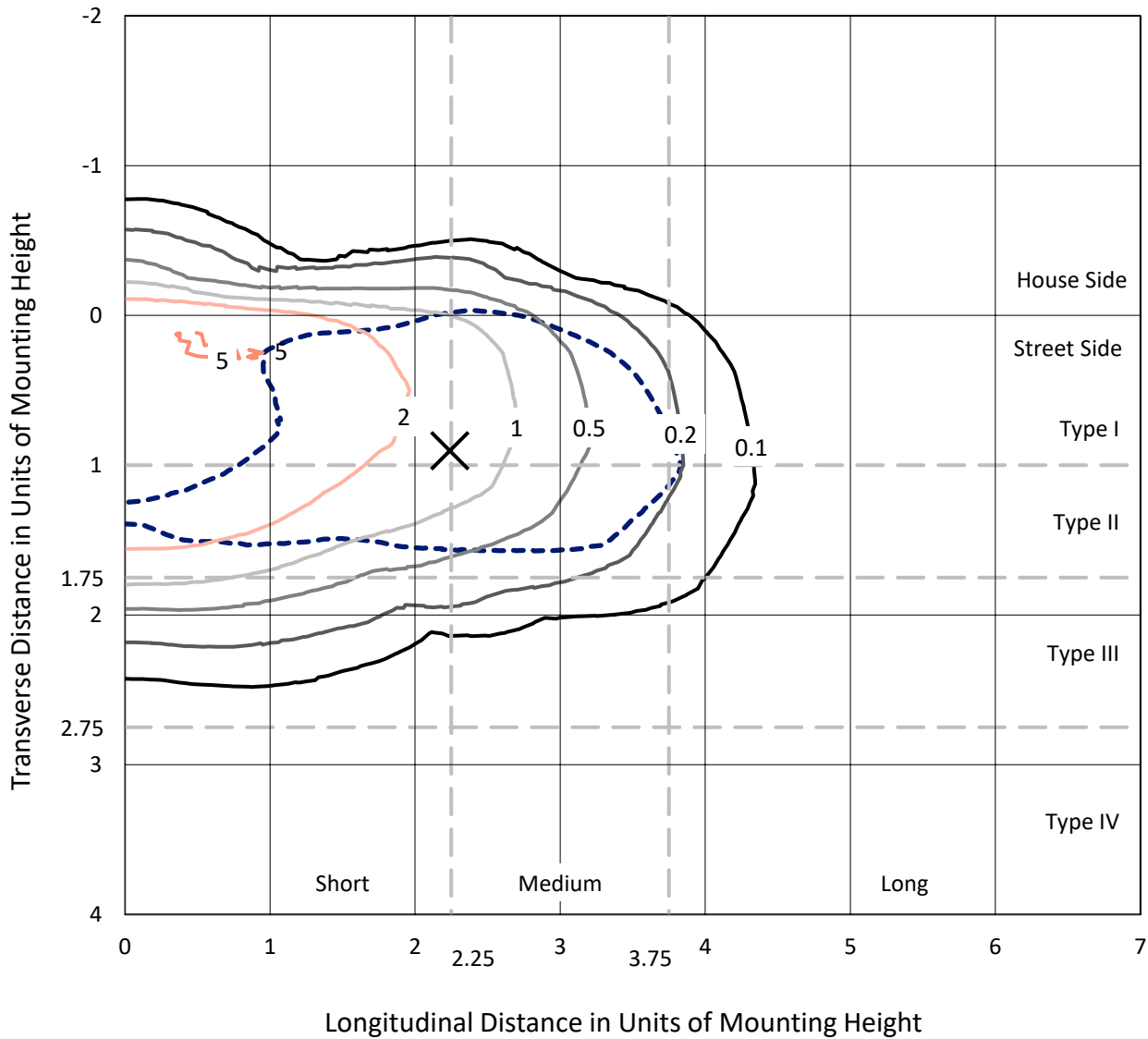
Lumens per Lamp: N/A  
Luminaire Lumens: 11180 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

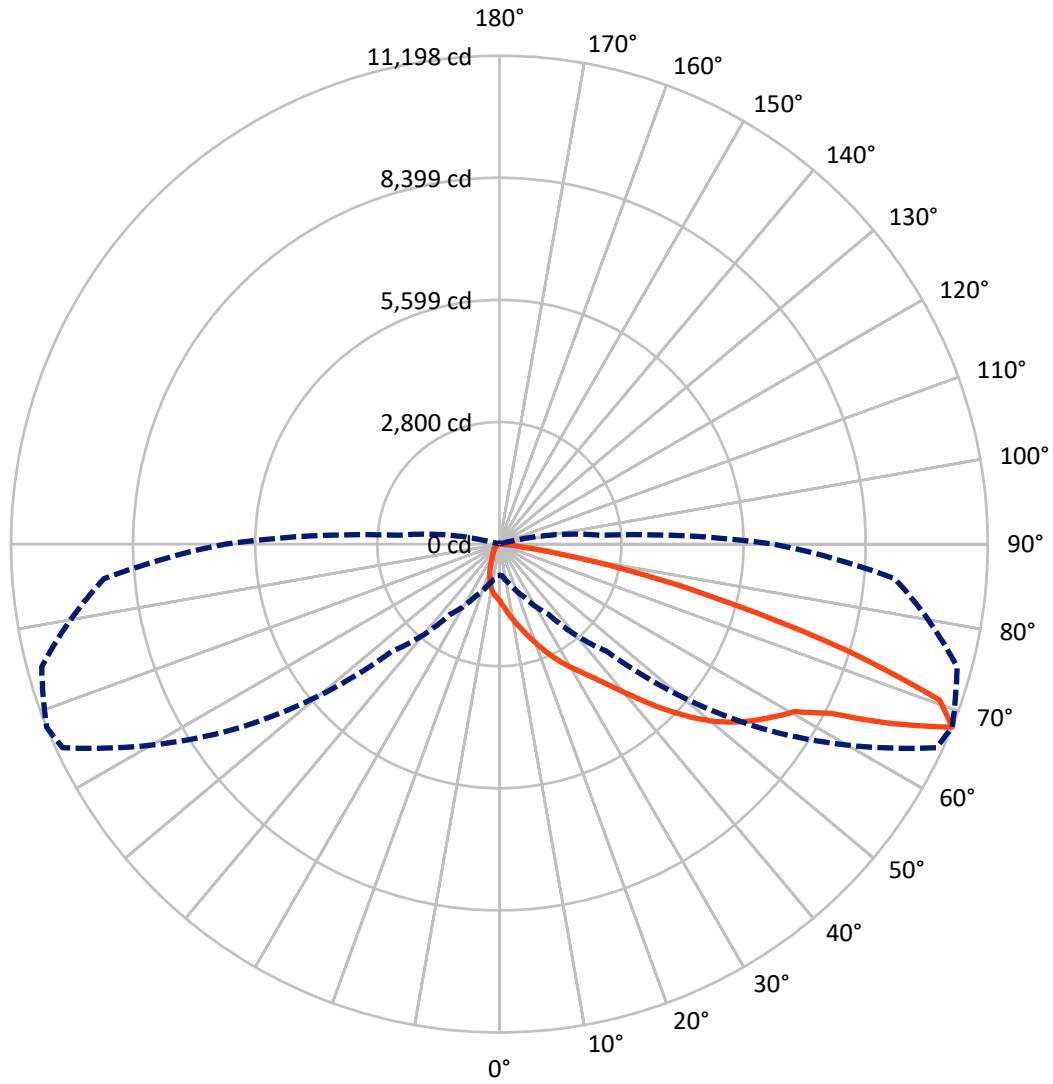
✕ Max cd  
 - - - 1/2 Max cd



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	807.3	0.0	807.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10372.7	0.0	10372.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11180.0	0.0	11180.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.9	1.1
10°-20°	364.4	3.3
20°-30°	626.2	5.6
30°-40°	1088.8	9.7
40°-50°	1899.8	17.0
50°-60°	2865.4	25.6
60°-70°	2873.2	25.7
70°-80°	1267.7	11.3
80°-90°	67.7	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°	11180.0	100.0
0°-180°	11180.0	100.0

**Coefficient of Utilization**



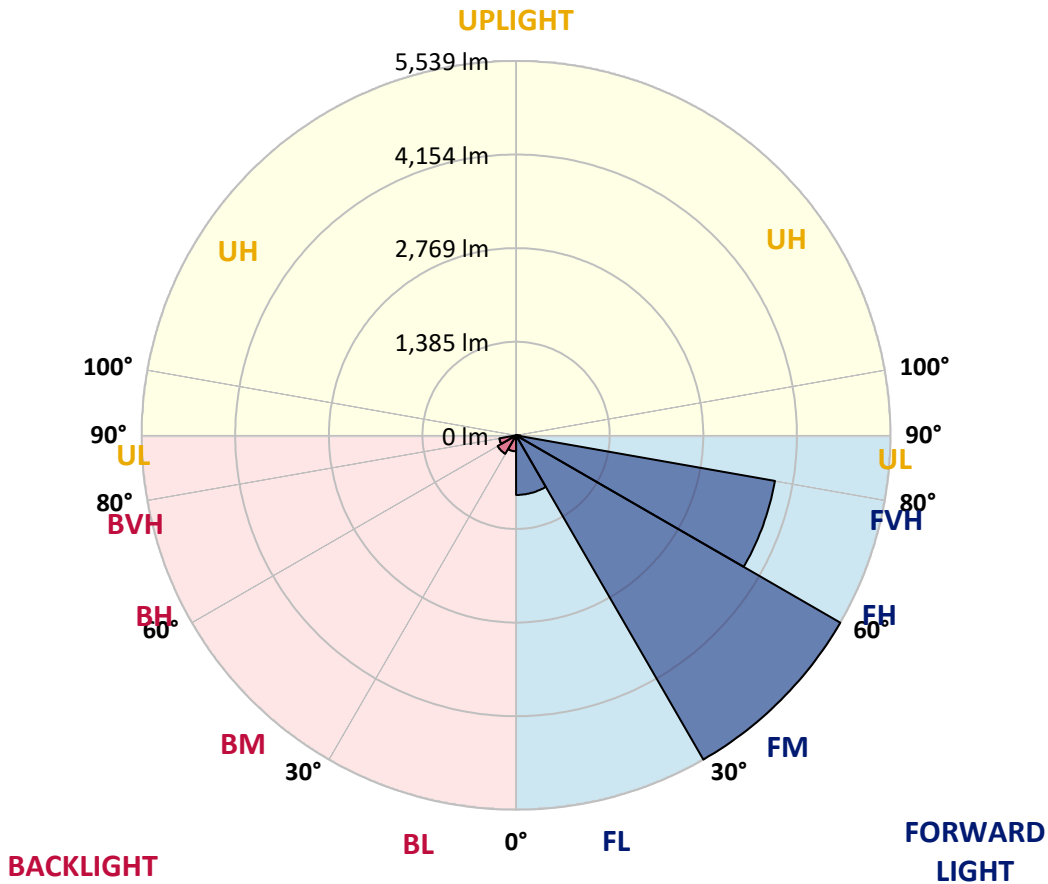
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.3	7.9			
FM (30°-60°)	5538.6	49.5			
FH (60°-80°)	3888.9	34.8			G2/5000
FVH (80°-90°)	63.9	0.6			G1/100
BL (0°-30°)	236.2	2.1	B1/500		
BM (30°-60°)	315.4	2.8	B1/1000		
BH (60°-80°)	252.0	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°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1515.1	1524.7	1515.1	1517.2	1489.4	1476.5	1448.7	1410.2	1400.6	1376.0	1338.5
5°	1700.2	1708.7	1699.1	1697.0	1664.9	1641.3	1595.3	1529.0	1509.7	1461.6	1387.7
7.5°	1800.7	1806.1	1809.3	1814.6	1802.9	1783.6	1741.9	1659.5	1639.2	1561.1	1457.3
10°	1811.4	1815.7	1831.8	1863.9	1887.4	1899.2	1875.6	1799.7	1767.6	1691.6	1542.9
12.5°	1781.5	1787.9	1813.6	1867.1	1932.3	1992.3	2007.2	1940.9	1912.0	1814.6	1643.5
15°	1741.9	1747.2	1782.5	1855.3	1953.7	2063.9	2126.0	2097.1	2065.0	1963.4	1754.7
17.5°	1680.9	1688.4	1737.6	1836.0	1963.4	2120.7	2254.4	2264.0	2241.6	2131.4	1877.8
20°	1646.7	1652.0	1695.9	1797.5	1957.0	2162.4	2374.2	2465.2	2440.6	2325.0	2019.0
22.5°	1675.6	1679.8	1708.7	1787.9	1935.6	2185.9	2485.5	2666.3	2652.4	2532.6	2167.7
25°	1827.5	1841.4	1824.3	1838.2	1945.2	2198.8	2575.4	2867.5	2870.7	2749.8	2321.8
27.5°	2135.6	2117.4	2076.8	2007.2	2020.1	2233.0	2652.4	3056.9	3084.7	2961.6	2458.8
30°	2449.1	2438.4	2413.8	2305.8	2215.9	2309.0	2717.7	3250.5	3294.4	3170.3	2580.7
32.5°	2801.1	2811.8	2768.0	2638.5	2485.5	2463.0	2785.1	3434.6	3516.9	3406.7	2724.1
35°	3221.6	3224.9	3138.2	2994.8	2821.5	2717.7	2906.0	3637.9	3789.8	3708.5	2915.6
37.5°	3631.4	3650.7	3603.6	3377.9	3223.8	3034.4	3106.1	3898.9	4112.9	4080.8	3156.4
40°	3994.1	4024.1	4009.1	3790.9	3588.6	3429.2	3416.4	4204.9	4503.4	4539.8	3474.2
42.5°	4283.0	4302.3	4314.1	4158.9	3980.2	3890.4	3799.4	4560.2	4964.6	5113.3	3863.6
45°	4588.0	4594.4	4619.0	4514.1	4357.9	4365.4	4252.0	4991.3	5450.4	5748.9	4310.9
47.5°	4976.4	4997.8	4986.0	4875.8	4734.6	4819.1	4719.6	5435.4	5929.7	6427.2	4768.8
50°	5449.3	5471.8	5461.1	5332.7	5175.4	5210.7	5148.6	5866.6	6391.9	7067.1	5149.7
52.5°	5693.2	5711.4	5844.1	5901.9	5819.5	5594.8	5514.6	6340.6	6782.5	7593.5	5499.6
55°	5575.5	5588.4	5877.3	6121.2	6423.0	6198.3	5882.6	6706.5	7127.0	8004.3	5759.6
57.5°	5087.6	5157.2	5549.9	5962.9	6597.4	6794.2	6479.7	7104.5	7458.7	8290.0	6015.3
60°	4087.2	4084.0	4646.8	5388.3	6257.1	6957.9	7322.8	7642.7	7791.4	8509.4	6357.7
62.5°	2258.7	2279.0	3028.0	4004.8	5311.3	6534.2	7955.1	8572.5	8550.0	8892.4	6893.7
65°	1124.5	1165.2	1571.8	2294.0	3534.1	5400.1	8064.3	9991.3	9927.1	9794.4	8001.1
67.5°	713.7	729.7	954.4	1333.2	1964.4	3470.9	7384.8	11049.4	11198.2	10864.3	9100.0
70°	462.2	489.0	663.4	911.6	1185.5	1789.0	5409.7	10363.6	10704.9	10746.6	8415.2
72.5°	251.4	270.7	423.7	650.5	856.0	894.5	3038.7	7777.5	8326.4	9116.0	6583.4
75°	143.4	157.3	232.2	441.9	628.1	544.6	1347.1	5206.4	5556.3	6515.0	4717.4
77.5°	86.7	98.4	130.5	215.1	393.7	363.8	509.3	3169.2	3391.8	3887.2	2475.9
80°	39.6	47.1	82.4	118.8	215.1	172.3	194.7	1477.6	1525.8	1595.3	819.6
82.5°	18.2	21.4	37.4	70.6	122.0	99.5	74.9	341.3	480.4	454.7	208.6
85°	2.1	2.1	13.9	28.9	34.2	25.7	31.0	77.0	97.4	137.0	59.9
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	6.4	9.6	13.9	22.5	15.0
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°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1321.4	1291.4	1264.7	1225.1	1198.4	1168.4	1148.1	1123.5	1113.8	1106.3	1095.6
5°	1351.4	1303.2	1237.9	1165.2	1105.3	1048.6	996.1	961.9	931.9	927.7	912.7
7.5°	1400.6	1328.9	1218.7	1099.9	998.3	904.1	830.3	770.4	740.4	730.8	713.7
10°	1465.8	1367.4	1189.8	1007.9	861.3	749.0	665.5	598.1	551.0	533.9	521.1
12.5°	1538.6	1402.7	1143.8	894.5	727.6	599.2	493.3	421.6	391.6	380.9	371.3
15°	1622.1	1435.9	1071.0	781.1	597.0	440.8	365.9	334.9	322.1	318.8	315.6
17.5°	1702.3	1457.3	984.4	663.4	459.0	342.4	307.1	295.3	292.1	288.9	286.7
20°	1793.2	1472.3	882.7	552.1	356.3	290.0	272.8	264.3	257.9	251.4	250.4
22.5°	1886.3	1472.3	772.5	443.0	298.5	260.0	240.7	224.7	212.9	206.5	204.4
25°	1975.1	1451.9	663.4	354.2	263.2	231.1	206.5	188.3	172.3	164.8	162.6
27.5°	2038.3	1399.5	568.1	299.6	238.6	205.4	175.5	155.1	142.3	134.8	133.7
30°	2077.9	1321.4	480.4	267.5	217.2	178.7	148.7	131.6	122.0	116.6	114.5
32.5°	2107.8	1225.1	402.3	245.0	196.9	155.1	129.5	115.6	107.0	102.7	101.6
35°	2167.7	1134.2	344.5	224.7	175.5	135.9	113.4	102.7	96.3	90.9	89.9
37.5°	2251.2	1058.2	298.5	206.5	155.1	120.9	102.7	93.1	87.7	82.4	81.3
40°	2374.2	1010.0	264.3	188.3	137.0	109.1	94.2	85.6	78.1	72.8	71.7
42.5°	2563.6	987.6	241.8	170.1	120.9	98.4	86.7	76.0	68.5	63.1	62.1
45°	2789.4	999.3	222.6	151.9	110.2	90.9	77.0	66.3	58.8	53.5	52.4
47.5°	3031.2	1041.1	206.5	134.8	99.5	83.5	68.5	56.7	50.3	44.9	43.9
50°	3283.7	1109.5	192.6	118.8	90.9	74.9	58.8	49.2	42.8	38.5	37.4
52.5°	3503.0	1202.6	178.7	107.0	83.5	66.3	51.4	42.8	36.4	32.1	31.0
55°	3712.8	1290.4	168.0	96.3	74.9	57.8	44.9	36.4	31.0	26.7	25.7
57.5°	3940.7	1383.5	155.1	86.7	67.4	51.4	39.6	31.0	26.7	22.5	21.4
60°	4272.3	1521.5	135.9	79.2	58.8	44.9	34.2	27.8	23.5	18.2	17.1
62.5°	4750.6	1772.9	114.5	68.5	50.3	38.5	28.9	23.5	19.3	15.0	12.8
65°	5645.1	2200.9	94.2	56.7	40.7	32.1	24.6	19.3	15.0	10.7	9.6
67.5°	6289.2	2312.2	76.0	46.0	33.2	24.6	20.3	15.0	10.7	7.5	6.4
70°	5498.5	1660.6	58.8	37.4	27.8	19.3	16.0	11.8	7.5	5.3	4.3
72.5°	4142.9	1084.9	43.9	28.9	21.4	16.0	11.8	9.6	6.4	4.3	3.2
75°	2919.9	627.0	32.1	21.4	15.0	11.8	9.6	7.5	5.3	3.2	3.2
77.5°	1496.9	258.9	22.5	15.0	10.7	7.5	6.4	4.3	4.3	3.2	2.1
80°	454.7	85.6	12.8	9.6	7.5	5.3	3.2	3.2	3.2	2.1	1.1
82.5°	103.8	27.8	7.5	7.5	5.3	4.3	3.2	1.1	1.1	0.0	0.0
85°	26.7	8.6	6.4	5.3	5.3	4.3	2.1	1.1	0.0	0.0	0.0
87.5°	9.6	5.3	5.3	5.3	4.3	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)