

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: P633387

Luminaire Tested: GWS-SA2E-750-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-750-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

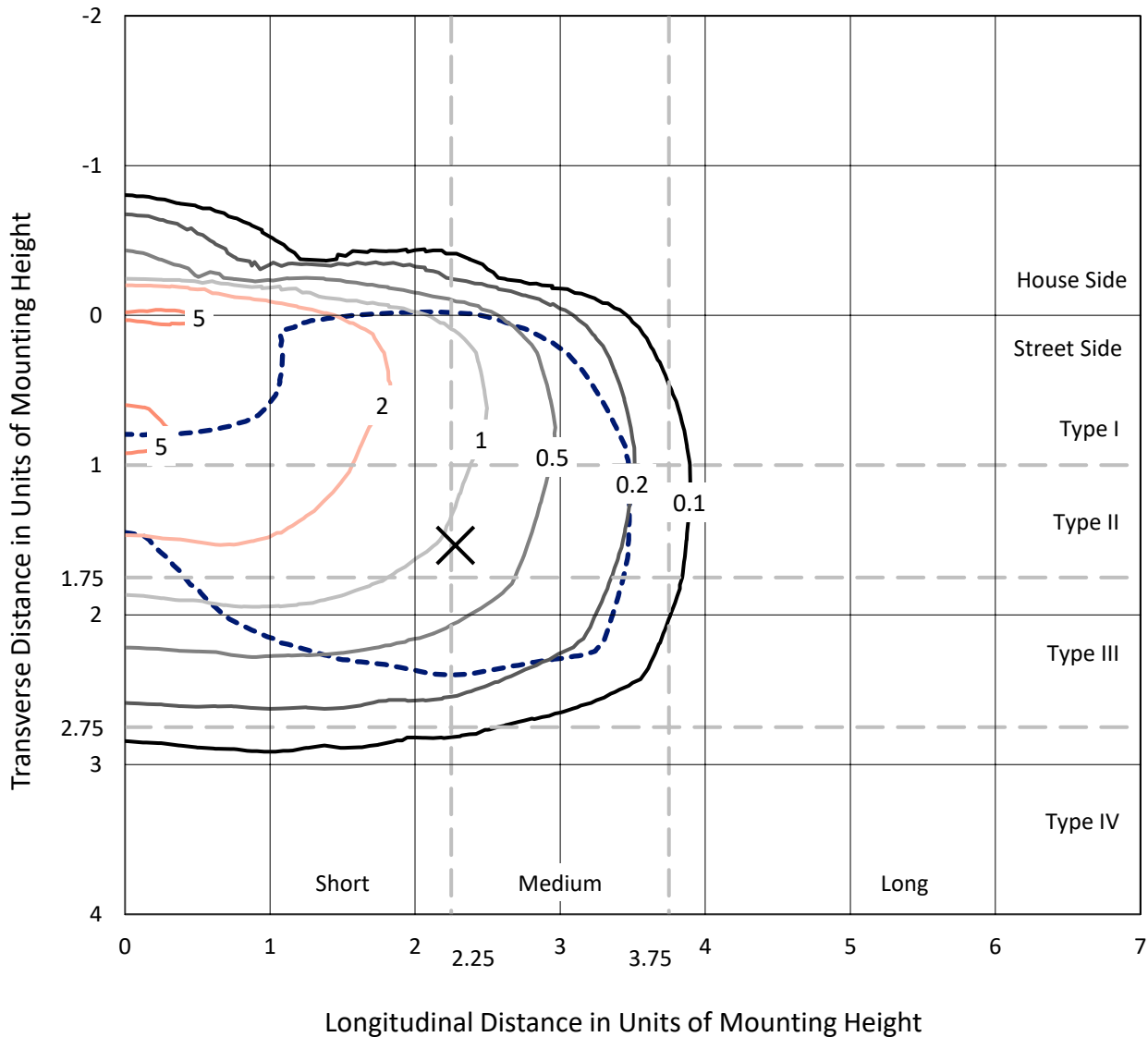
Lumens per Lamp: N/A  
Luminaire Lumens: 11684 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

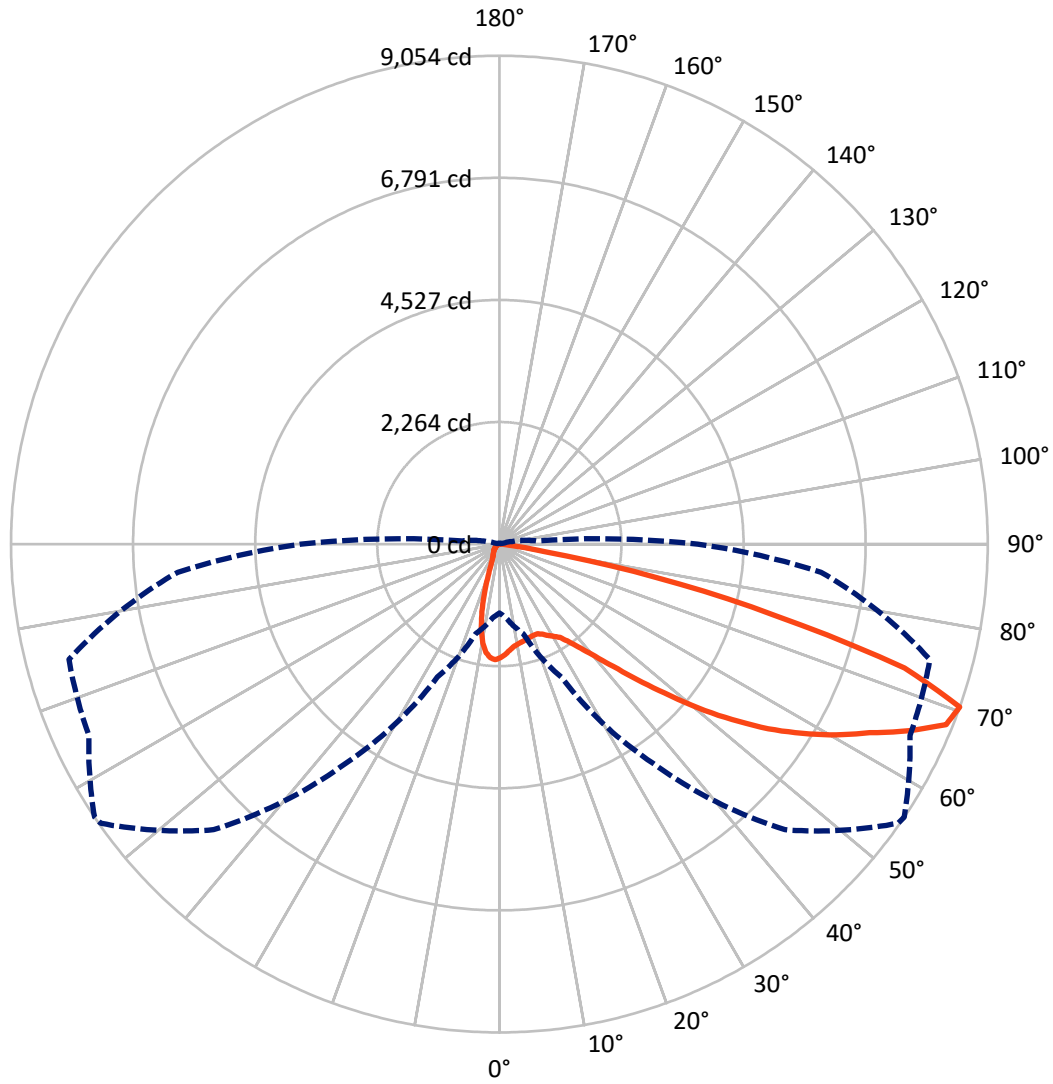
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1049.4	0.0	1049.4
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	10634.5	0.0	10634.5
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	11684.0	0.0	11684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.9	1.5
10°-20°	406.8	3.5
20°-30°	644.4	5.5
30°-40°	1111.3	9.5
40°-50°	1876.6	16.1
50°-60°	2757.3	23.6
60°-70°	3268.9	28.0
70°-80°	1394.0	11.9
80°-90°	43.8	0.4
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°	11684.0	100.0
0°-180°	11684.0	100.0

**Coefficient of Utilization**



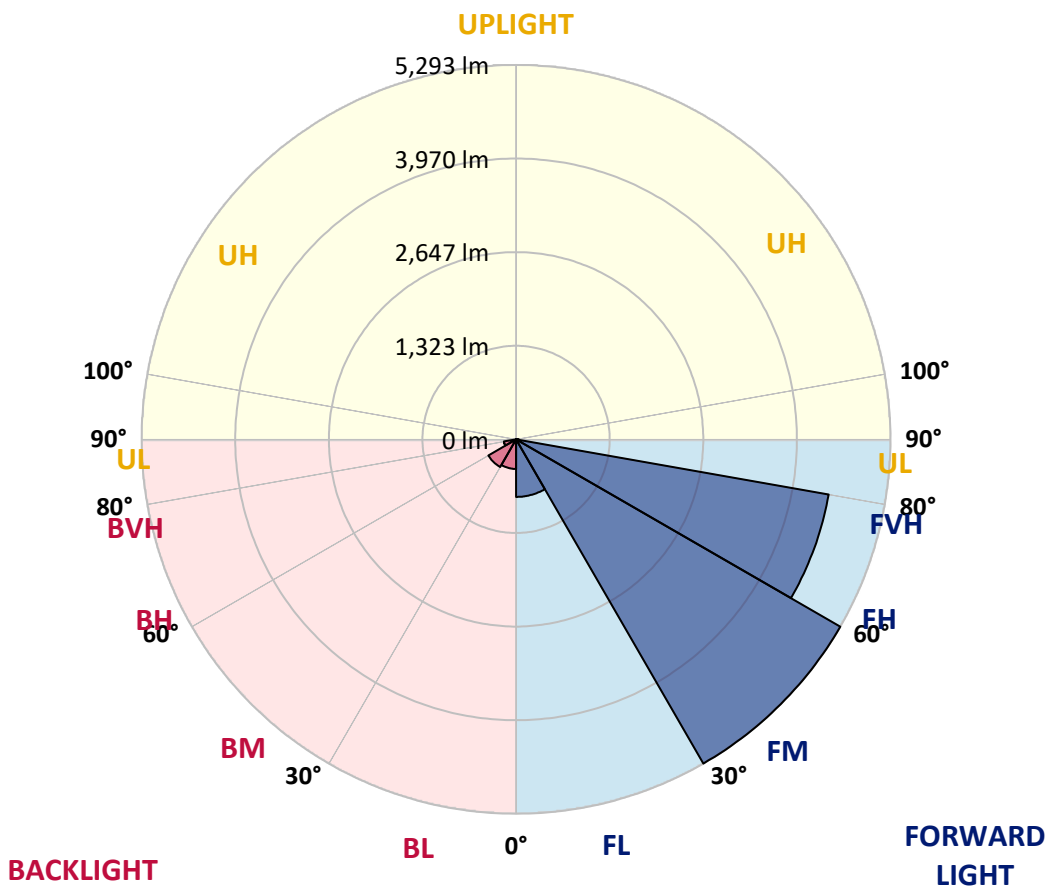
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.2	7.0			
FM (30°-60°)	5293.2	45.3			
FH (60°-80°)	4487.9	38.4			G2/5000
FVH (80°-90°)	39.3	0.3			G1/100
BL (0°-30°)	418.0	3.6	B1/500		
BM (30°-60°)	452.0	3.9	B1/1000		
BH (60°-80°)	175.0	1.5	B1/500		G1/500
BVH (80°-90°)	4.4	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7
2.5°	1961.2	1958.0	1960.2	1976.2	2006.2	2020.1	2043.6	2047.9	2067.2	2091.8	2101.4
5°	1833.9	1823.2	1828.6	1851.0	1885.3	1923.8	1967.6	1979.4	2027.6	2082.1	2122.8
7.5°	1717.3	1705.5	1718.3	1753.7	1801.8	1843.5	1908.8	1916.3	1993.3	2089.6	2163.5
10°	1534.3	1537.5	1563.2	1625.3	1699.1	1785.8	1873.5	1884.2	1979.4	2114.2	2228.7
12.5°	1394.2	1386.7	1414.5	1485.1	1588.9	1715.1	1846.7	1860.7	1980.5	2151.7	2312.2
15°	1328.9	1326.7	1338.5	1389.9	1490.4	1639.2	1822.1	1840.3	1994.4	2185.9	2391.4
17.5°	1331.0	1327.8	1326.7	1356.7	1431.6	1582.5	1795.4	1818.9	2006.2	2223.4	2474.8
20°	1424.1	1409.1	1382.4	1368.5	1413.4	1546.1	1777.2	1803.9	2023.3	2263.0	2563.6
22.5°	1618.8	1624.2	1552.5	1477.6	1456.2	1550.4	1775.1	1806.1	2060.7	2325.0	2672.7
25°	2008.3	1999.7	1867.1	1699.1	1582.5	1599.6	1812.5	1850.0	2134.6	2413.8	2775.5
27.5°	2496.2	2503.7	2321.8	2054.3	1810.4	1701.2	1881.0	1918.4	2220.2	2469.5	2843.9
30°	3028.0	3020.5	2825.8	2529.4	2133.5	1870.3	1949.5	1982.6	2263.0	2499.4	2914.6
32.5°	3530.9	3513.7	3321.1	3010.9	2545.4	2136.7	2043.6	2062.9	2319.7	2564.7	3009.8
35°	3959.9	3958.8	3790.9	3460.2	2969.1	2470.5	2205.2	2221.2	2425.6	2668.5	3149.9
37.5°	4402.9	4387.9	4199.6	3897.8	3404.6	2836.5	2452.3	2445.9	2592.5	2821.5	3322.2
40°	4766.7	4757.0	4612.6	4322.6	3857.2	3240.9	2751.9	2732.7	2790.4	3033.3	3561.9
42.5°	5036.3	5037.4	4992.4	4815.9	4336.5	3708.5	3128.6	3098.6	3097.5	3353.2	3878.6
45°	5240.6	5254.6	5322.0	5295.2	4902.5	4253.1	3611.1	3580.1	3527.6	3768.4	4241.3
47.5°	5335.9	5354.1	5557.3	5664.3	5397.9	4793.4	4185.7	4120.4	4017.7	4320.5	4646.8
50°	5326.2	5358.3	5641.9	5967.1	5847.3	5341.2	4811.6	4780.6	4612.6	4904.7	5048.1
52.5°	5108.0	5176.4	5647.2	6151.2	6192.9	5846.2	5458.9	5401.1	5319.8	5514.6	5424.7
55°	4515.2	4598.7	5421.5	6210.0	6462.5	6287.1	6092.3	6045.2	5910.4	6090.2	5753.2
57.5°	4193.2	4264.8	4946.4	6181.1	6691.5	6694.7	6656.2	6617.7	6506.4	6659.4	6138.3
60°	3999.5	4071.2	4692.8	6075.2	6899.1	7124.8	7185.8	7181.5	7021.0	7306.7	6589.9
62.5°	3716.0	3814.4	4428.5	5800.2	7046.7	7548.5	7732.6	7703.7	7525.0	7980.8	7037.1
65°	3143.5	3229.1	3887.1	5346.6	6960.1	7899.5	8325.3	8340.3	8133.8	8615.3	7390.2
67.5°	2204.1	2267.2	2921.0	4394.3	6371.6	8015.0	8932.0	8930.9	8578.9	8940.5	7234.0
70°	1277.5	1364.2	1725.8	2716.6	4957.1	7489.7	9022.9	9054.0	8398.1	8261.1	5986.4
72.5°	494.3	566.0	977.9	1443.4	2585.0	5737.1	7761.5	7852.4	7028.5	6372.7	4166.4
75°	147.7	164.8	460.1	768.2	1037.9	2771.2	5254.6	5280.2	4821.2	3974.9	2135.6
77.5°	110.2	122.0	201.2	388.4	363.8	839.9	2718.8	2969.1	2559.3	1419.8	588.5
80°	74.9	88.8	143.4	189.4	134.8	223.6	763.9	838.8	781.1	318.8	147.7
82.5°	33.2	42.8	101.6	95.2	49.2	64.2	235.4	250.4	161.6	96.3	51.4
85°	3.2	4.3	38.5	41.7	18.2	15.0	49.2	49.2	35.3	33.2	21.4
87.5°	0.0	0.0	1.1	2.1	2.1	3.2	4.3	5.3	6.4	8.6	10.7
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°	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7
2.5°	2126.0	2113.2	2129.2	2142.1	2145.3	2121.7	2107.8	2087.5	2083.2	2084.3	2078.9
5°	2154.9	2148.5	2160.2	2146.3	2110.0	2041.5	1982.6	1917.4	1882.1	1861.7	1859.6
7.5°	2208.4	2205.2	2192.3	2129.2	2015.8	1863.9	1717.3	1573.9	1485.1	1453.0	1447.7
10°	2287.6	2281.1	2228.7	2078.9	1837.1	1545.0	1298.9	1093.5	968.3	931.9	887.0
12.5°	2378.5	2365.7	2251.2	1970.9	1567.5	1163.0	856.0	625.9	517.9	485.8	485.8
15°	2466.2	2438.4	2238.3	1792.2	1235.8	756.5	478.3	361.6	328.5	319.9	319.9
17.5°	2556.1	2502.6	2188.1	1548.2	853.8	447.2	318.8	296.4	292.1	293.2	294.2
20°	2640.7	2557.2	2099.3	1255.1	544.6	312.4	285.7	280.3	278.2	280.3	279.3
22.5°	2732.7	2607.5	1964.4	935.1	354.2	281.4	271.8	267.5	265.3	268.6	268.6
25°	2823.6	2643.9	1785.8	629.1	281.4	262.1	256.8	252.5	250.4	251.4	251.4
27.5°	2870.7	2630.0	1551.4	401.2	252.5	242.9	237.5	232.2	229.0	227.9	229.0
30°	2902.8	2587.2	1264.7	285.7	229.0	217.2	211.9	207.6	199.0	193.7	195.8
32.5°	2953.1	2544.4	953.3	239.7	209.7	191.5	183.0	172.3	160.5	155.1	155.1
35°	3013.0	2485.5	668.7	216.1	189.4	170.1	154.1	135.9	122.0	117.7	117.7
37.5°	3092.2	2429.9	445.1	200.1	172.3	151.9	129.5	108.1	93.1	90.9	89.9
40°	3210.9	2382.8	313.5	188.3	157.3	132.7	105.9	83.5	72.8	69.5	69.5
42.5°	3365.0	2334.6	248.2	176.5	144.4	114.5	84.5	66.3	57.8	55.6	54.6
45°	3555.5	2277.9	216.1	165.8	131.6	95.2	67.4	55.6	49.2	47.1	47.1
47.5°	3762.0	2200.9	201.2	151.9	116.6	77.0	56.7	48.1	44.9	43.9	42.8
50°	3965.3	2097.1	188.3	139.1	99.5	63.1	49.2	43.9	41.7	40.7	40.7
52.5°	4142.9	1976.2	172.3	124.1	81.3	54.6	43.9	40.7	38.5	36.4	35.3
55°	4294.8	1844.6	151.9	107.0	66.3	48.1	40.7	37.4	35.3	33.2	32.1
57.5°	4490.6	1769.7	122.0	86.7	54.6	42.8	37.4	34.2	32.1	28.9	28.9
60°	4707.8	1715.1	90.9	68.5	47.1	39.6	34.2	31.0	28.9	25.7	25.7
62.5°	4882.2	1633.8	71.7	55.6	40.7	35.3	31.0	27.8	25.7	22.5	22.5
65°	4948.5	1465.8	58.8	43.9	33.2	31.0	27.8	25.7	22.5	19.3	19.3
67.5°	4649.0	1129.9	49.2	35.3	27.8	26.7	24.6	23.5	19.3	17.1	16.0
70°	3681.7	689.1	40.7	28.9	23.5	22.5	22.5	20.3	17.1	16.0	15.0
72.5°	2523.0	355.2	33.2	23.5	20.3	20.3	19.3	18.2	16.0	15.0	15.0
75°	1310.7	118.8	25.7	18.2	16.0	17.1	17.1	16.0	15.0	15.0	13.9
77.5°	375.6	53.5	19.3	13.9	12.8	12.8	13.9	13.9	13.9	12.8	12.8
80°	97.4	31.0	13.9	10.7	10.7	10.7	10.7	11.8	12.8	11.8	11.8
82.5°	39.6	17.1	9.6	8.6	8.6	8.6	8.6	9.6	10.7	10.7	10.7
85°	24.6	8.6	7.5	7.5	7.5	6.4	6.4	7.5	7.5	8.6	8.6
87.5°	15.0	6.4	6.4	6.4	6.4	5.3	5.3	5.3	5.3	5.3	5.3
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)