

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: P632892

Luminaire Tested: GWS-SA2D-750-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632892  
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-SA2D-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**

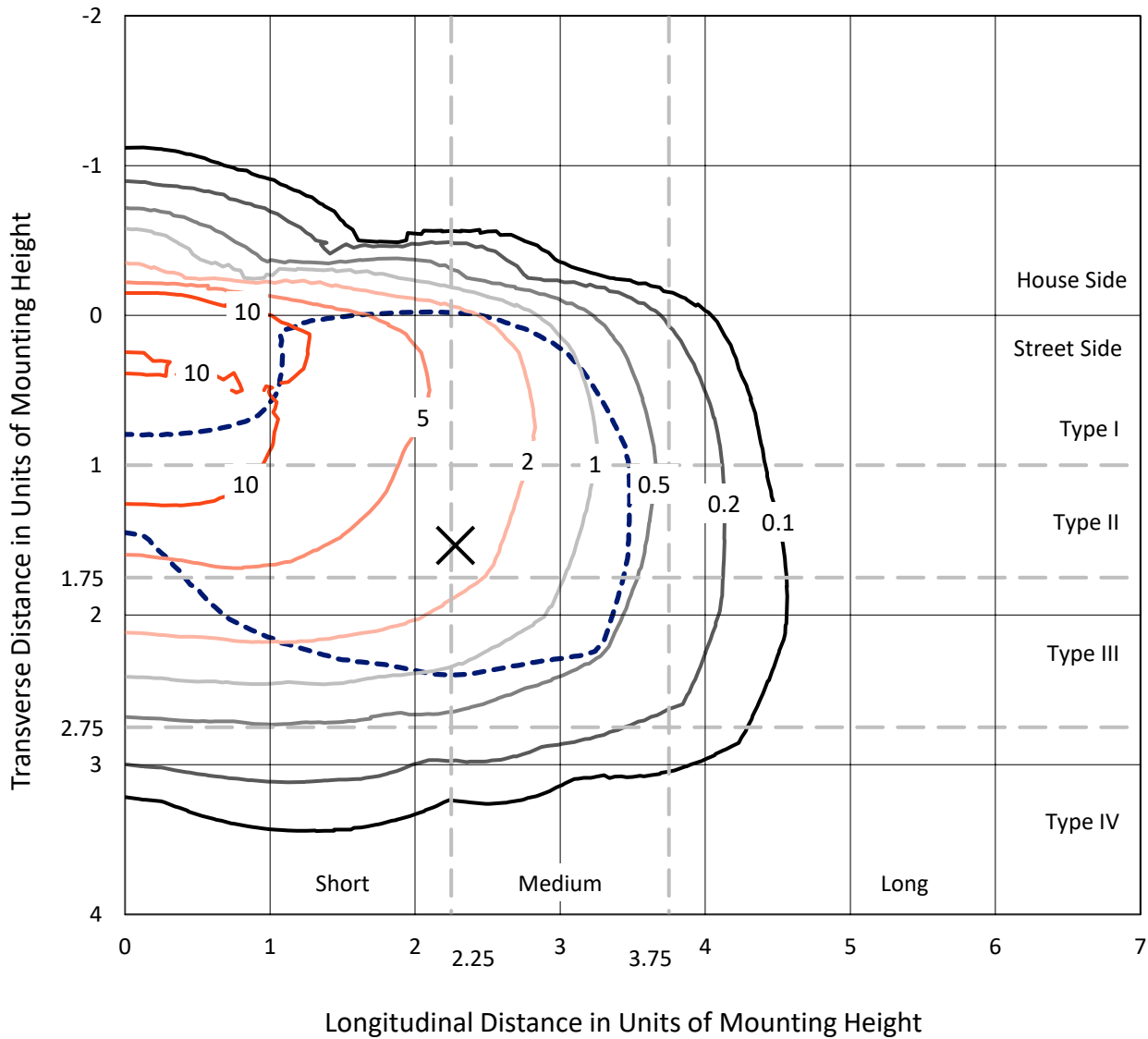
Lumens per Lamp: N/A  
Luminaire Lumens: 9349.8 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

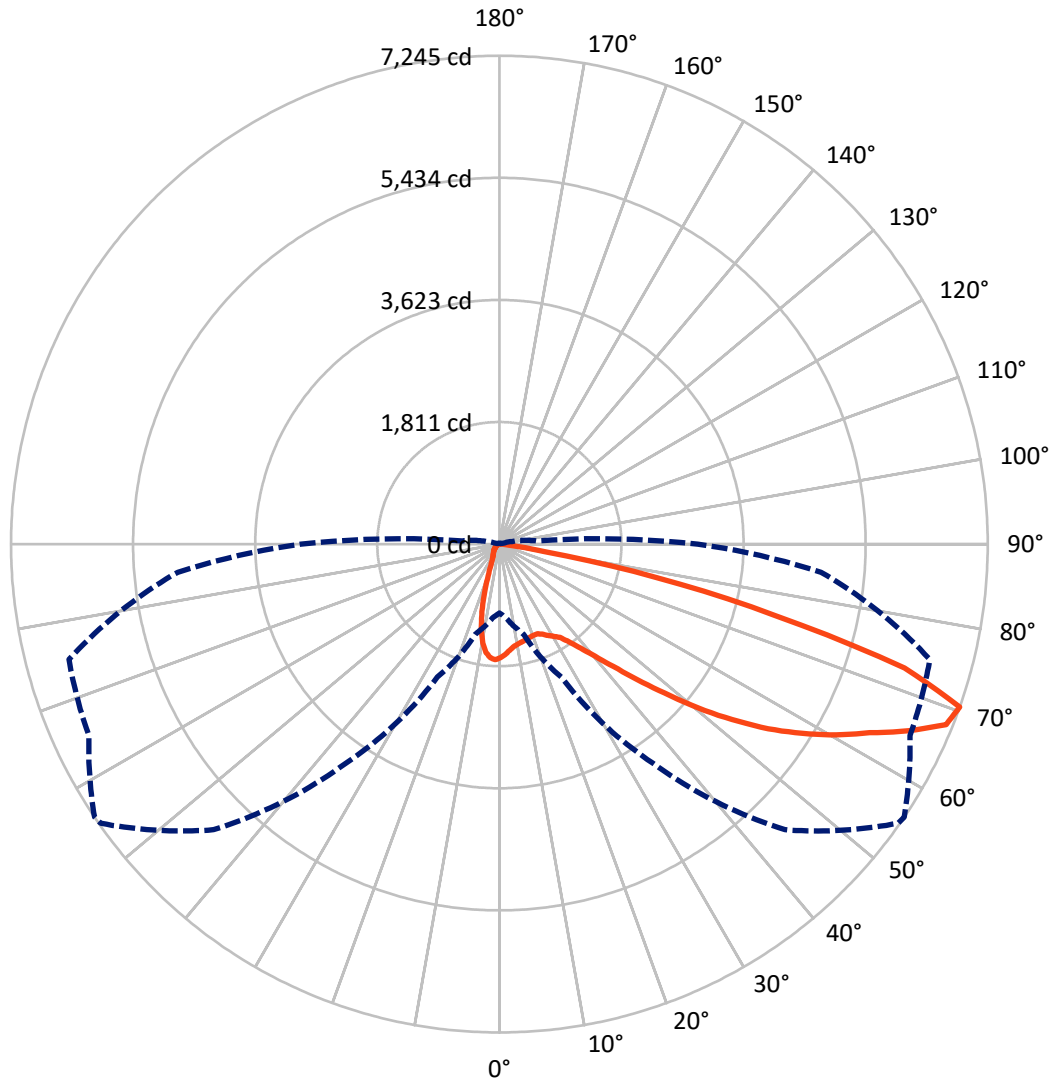
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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	839.8	0.0	839.8
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	8510.0	0.0	8510.0
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	9349.8	0.0	9349.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	1.5
10°-20°	325.5	3.5
20°-30°	515.7	5.5
30°-40°	889.3	9.5
40°-50°	1501.7	16.1
50°-60°	2206.5	23.6
60°-70°	2615.9	28.0
70°-80°	1115.5	11.9
80°-90°	35.0	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°	9349.8	100.0
0°-180°	9349.8	100.0

**Coefficient of Utilization**



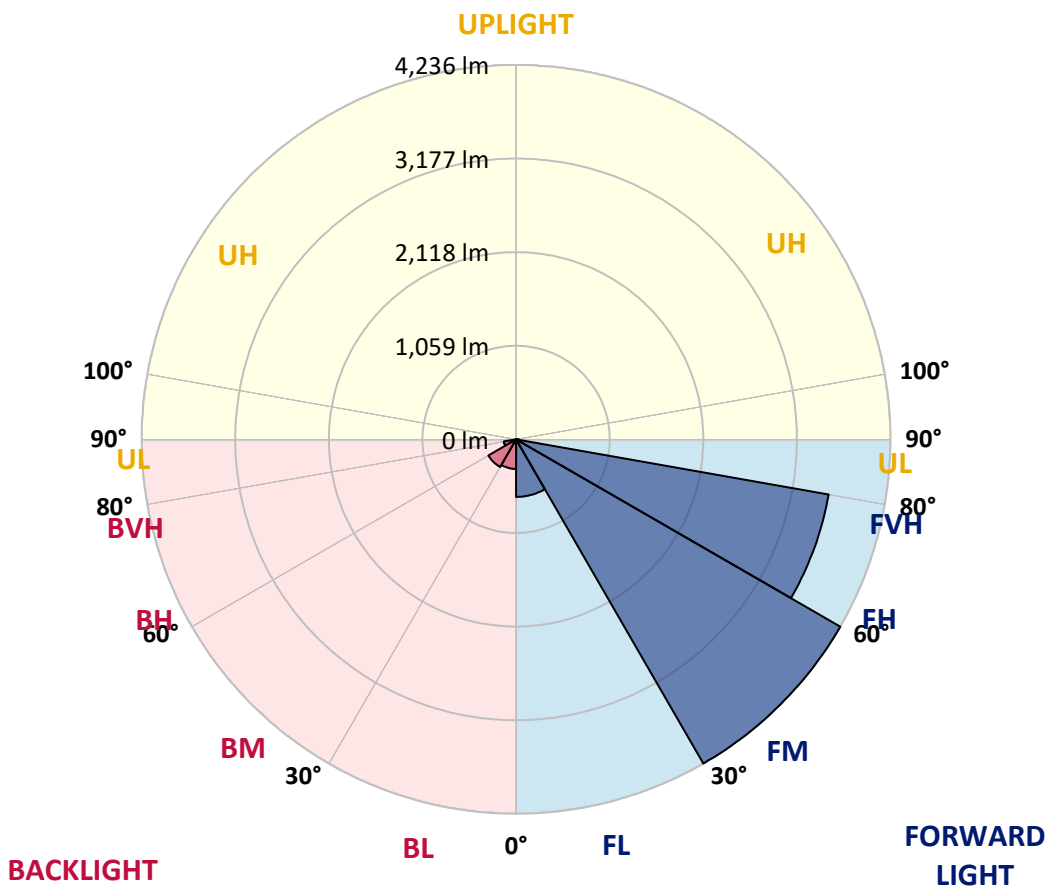
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.5	7.0			
FM (30°-60°)	4235.7	45.3			
FH (60°-80°)	3591.3	38.4			G2/5000
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	334.5	3.6	B1/500		
BM (30°-60°)	361.7	3.9	B1/1000		
BH (60°-80°)	140.1	1.5	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9
2.5°	1569.4	1566.9	1568.6	1581.4	1605.4	1616.5	1635.3	1638.8	1654.2	1673.9	1681.6
5°	1467.5	1459.0	1463.3	1481.2	1508.6	1539.5	1574.6	1584.0	1622.5	1666.2	1698.7
7.5°	1374.2	1364.8	1375.1	1403.3	1441.8	1475.2	1527.5	1533.5	1595.1	1672.2	1731.2
10°	1227.8	1230.4	1250.9	1300.6	1359.6	1429.0	1499.2	1507.8	1584.0	1691.9	1783.5
12.5°	1115.6	1109.6	1131.9	1188.4	1271.5	1372.5	1477.8	1488.9	1584.8	1721.8	1850.3
15°	1063.4	1061.7	1071.1	1112.2	1192.7	1311.7	1458.1	1472.7	1596.0	1749.2	1913.6
17.5°	1065.1	1062.5	1061.7	1085.7	1145.6	1266.3	1436.7	1455.5	1605.4	1779.2	1980.4
20°	1139.6	1127.6	1106.2	1095.1	1131.0	1237.2	1422.2	1443.6	1619.1	1810.9	2051.5
22.5°	1295.4	1299.7	1242.4	1182.4	1165.3	1240.6	1420.4	1445.3	1649.0	1860.5	2138.8
25°	1607.1	1600.2	1494.1	1359.6	1266.3	1280.0	1450.4	1480.4	1708.1	1931.6	2221.0
27.5°	1997.5	2003.5	1858.0	1643.9	1448.7	1361.4	1505.2	1535.2	1776.6	1976.1	2275.8
30°	2423.1	2417.1	2261.2	2024.1	1707.3	1496.6	1560.0	1586.5	1810.9	2000.1	2332.3
32.5°	2825.5	2811.8	2657.7	2409.4	2036.9	1709.8	1635.3	1650.8	1856.2	2052.3	2408.5
35°	3168.8	3167.9	3033.5	2769.0	2376.0	1977.0	1764.6	1777.5	1941.0	2135.4	2520.7
37.5°	3523.3	3511.3	3360.6	3119.1	2724.4	2269.8	1962.4	1957.3	2074.6	2257.8	2658.5
40°	3814.4	3806.7	3691.1	3459.1	3086.6	2593.4	2202.2	2186.7	2233.0	2427.3	2850.3
42.5°	4030.1	4031.0	3995.0	3853.8	3470.2	2967.6	2503.5	2479.6	2478.7	2683.3	3103.7
45°	4193.7	4204.8	4258.8	4237.3	3923.1	3403.4	2889.7	2864.9	2822.9	3015.5	3394.0
47.5°	4269.9	4284.4	4447.1	4532.7	4319.5	3835.8	3349.5	3297.2	3215.0	3457.3	3718.5
50°	4262.2	4287.9	4514.8	4775.0	4679.1	4274.2	3850.3	3825.5	3691.1	3924.8	4039.6
52.5°	4087.5	4142.3	4519.0	4922.3	4955.7	4678.3	4368.3	4322.1	4257.0	4412.9	4340.9
55°	3613.2	3680.0	4338.4	4969.4	5171.5	5031.0	4875.2	4837.5	4729.7	4873.5	4603.8
57.5°	3355.5	3412.8	3958.2	4946.3	5354.7	5357.3	5326.4	5295.6	5206.6	5329.0	4912.0
60°	3200.5	3257.9	3755.3	4861.5	5520.8	5701.5	5750.3	5746.8	5618.4	5847.0	5273.4
62.5°	2973.6	3052.4	3543.8	4641.5	5639.0	6040.5	6187.8	6164.7	6021.7	6386.4	5631.2
65°	2515.5	2584.0	3110.6	4278.4	5569.6	6321.3	6662.1	6674.1	6508.9	6894.1	5913.8
67.5°	1763.8	1814.3	2337.4	3516.4	5098.7	6413.8	7147.6	7146.7	6865.0	7154.4	5788.8
70°	1022.3	1091.7	1381.1	2173.9	3966.8	5993.4	7220.4	7245.2	6720.3	6610.7	4790.5
72.5°	395.6	452.9	782.6	1155.0	2068.6	4591.0	6210.9	6283.7	5624.4	5099.5	3334.1
75°	118.2	131.9	368.2	614.8	830.5	2217.6	4204.8	4225.4	3858.0	3180.8	1709.0
77.5°	88.2	97.6	161.0	310.8	291.1	672.1	2175.6	2376.0	2048.0	1136.2	470.9
80°	59.9	71.1	114.7	151.5	107.9	178.9	611.3	671.3	625.0	255.1	118.2
82.5°	26.5	34.2	81.3	76.2	39.4	51.4	188.4	200.4	129.3	77.1	41.1
85°	2.6	3.4	30.8	33.4	14.6	12.0	39.4	39.4	28.3	26.5	17.1
87.5°	0.0	0.0	0.9	1.7	1.7	2.6	3.4	4.3	5.1	6.8	8.6
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°	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9	1685.9
2.5°	1701.3	1691.0	1703.8	1714.1	1716.7	1697.8	1686.7	1670.5	1667.0	1667.9	1663.6
5°	1724.4	1719.3	1728.7	1717.5	1688.4	1633.6	1586.5	1534.3	1506.1	1489.8	1488.1
7.5°	1767.2	1764.6	1754.4	1703.8	1613.1	1491.5	1374.2	1259.5	1188.4	1162.7	1158.4
10°	1830.6	1825.4	1783.5	1663.6	1470.1	1236.4	1039.4	875.0	774.9	745.8	709.8
12.5°	1903.3	1893.1	1801.5	1577.1	1254.3	930.7	685.0	500.9	414.4	388.7	388.7
15°	1973.5	1951.3	1791.2	1434.1	988.9	605.3	382.7	289.4	262.9	256.0	256.0
17.5°	2045.5	2002.7	1750.9	1238.9	683.2	357.9	255.1	237.2	233.7	234.6	235.5
20°	2113.1	2046.3	1679.9	1004.3	435.8	250.0	228.6	224.3	222.6	224.3	223.5
22.5°	2186.7	2086.6	1572.0	748.3	283.4	225.2	217.5	214.1	212.3	214.9	214.9
25°	2259.5	2115.7	1429.0	503.4	225.2	209.8	205.5	202.1	200.4	201.2	201.2
27.5°	2297.2	2104.5	1241.5	321.1	202.1	194.4	190.1	185.8	183.2	182.4	183.2
30°	2322.9	2070.3	1012.0	228.6	183.2	173.8	169.5	166.1	159.3	155.0	156.7
32.5°	2363.1	2036.0	762.9	191.8	167.8	153.3	146.4	137.8	128.4	124.1	124.1
35°	2411.1	1989.0	535.1	173.0	151.5	136.1	123.3	108.7	97.6	94.2	94.2
37.5°	2474.4	1944.4	356.2	160.1	137.8	121.6	103.6	86.5	74.5	72.8	71.9
40°	2569.5	1906.8	250.9	150.7	125.9	106.2	84.8	66.8	58.2	55.7	55.7
42.5°	2692.8	1868.2	198.6	141.3	115.6	91.6	67.6	53.1	46.2	44.5	43.7
45°	2845.2	1822.9	173.0	132.7	105.3	76.2	53.9	44.5	39.4	37.7	37.7
47.5°	3010.4	1761.2	161.0	121.6	93.3	61.6	45.4	38.5	36.0	35.1	34.2
50°	3173.1	1678.2	150.7	111.3	79.6	50.5	39.4	35.1	33.4	32.5	32.5
52.5°	3315.2	1581.4	137.8	99.3	65.1	43.7	35.1	32.5	30.8	29.1	28.3
55°	3436.8	1476.1	121.6	85.6	53.1	38.5	32.5	30.0	28.3	26.5	25.7
57.5°	3593.5	1416.2	97.6	69.4	43.7	34.2	30.0	27.4	25.7	23.1	23.1
60°	3767.3	1372.5	72.8	54.8	37.7	31.7	27.4	24.8	23.1	20.5	20.5
62.5°	3906.9	1307.4	57.4	44.5	32.5	28.3	24.8	22.3	20.5	18.0	18.0
65°	3959.9	1173.0	47.1	35.1	26.5	24.8	22.3	20.5	18.0	15.4	15.4
67.5°	3720.2	904.1	39.4	28.3	22.3	21.4	19.7	18.8	15.4	13.7	12.8
70°	2946.2	551.4	32.5	23.1	18.8	18.0	18.0	16.3	13.7	12.8	12.0
72.5°	2018.9	284.3	26.5	18.8	16.3	16.3	15.4	14.6	12.8	12.0	12.0
75°	1048.8	95.0	20.5	14.6	12.8	13.7	13.7	12.8	12.0	12.0	11.1
77.5°	300.5	42.8	15.4	11.1	10.3	10.3	11.1	11.1	11.1	10.3	10.3
80°	77.9	24.8	11.1	8.6	8.6	8.6	8.6	9.4	10.3	9.4	9.4
82.5°	31.7	13.7	7.7	6.8	6.8	6.8	6.8	7.7	8.6	8.6	8.6
85°	19.7	6.8	6.0	6.0	6.0	5.1	5.1	6.0	6.0	6.8	6.8
87.5°	12.0	5.1	5.1	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3
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)