

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: P633430

Luminaire Tested: GWS-SA2E-760-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633430  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

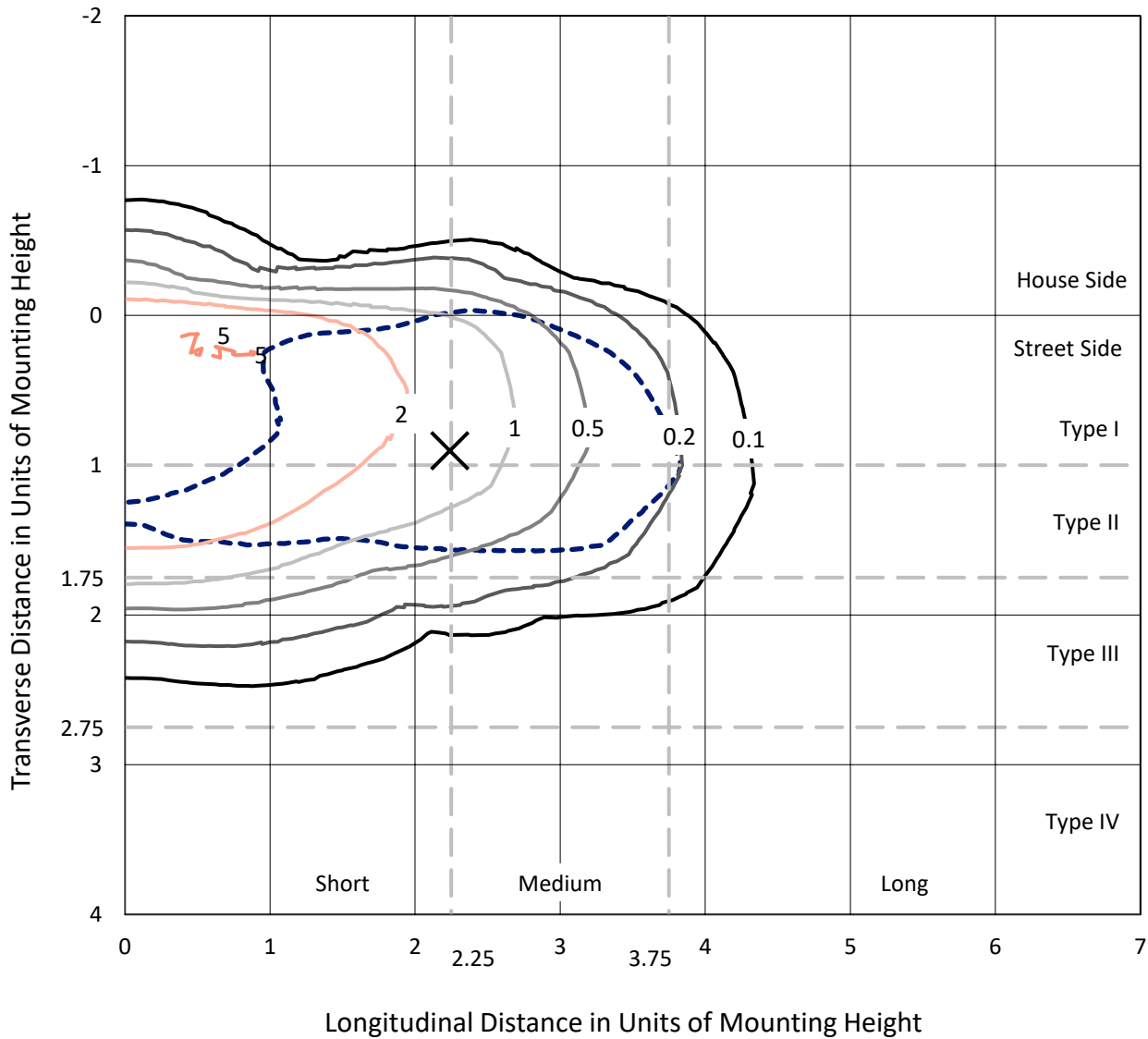
Lumens per Lamp: N/A  
Luminaire Lumens: 11026.8 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

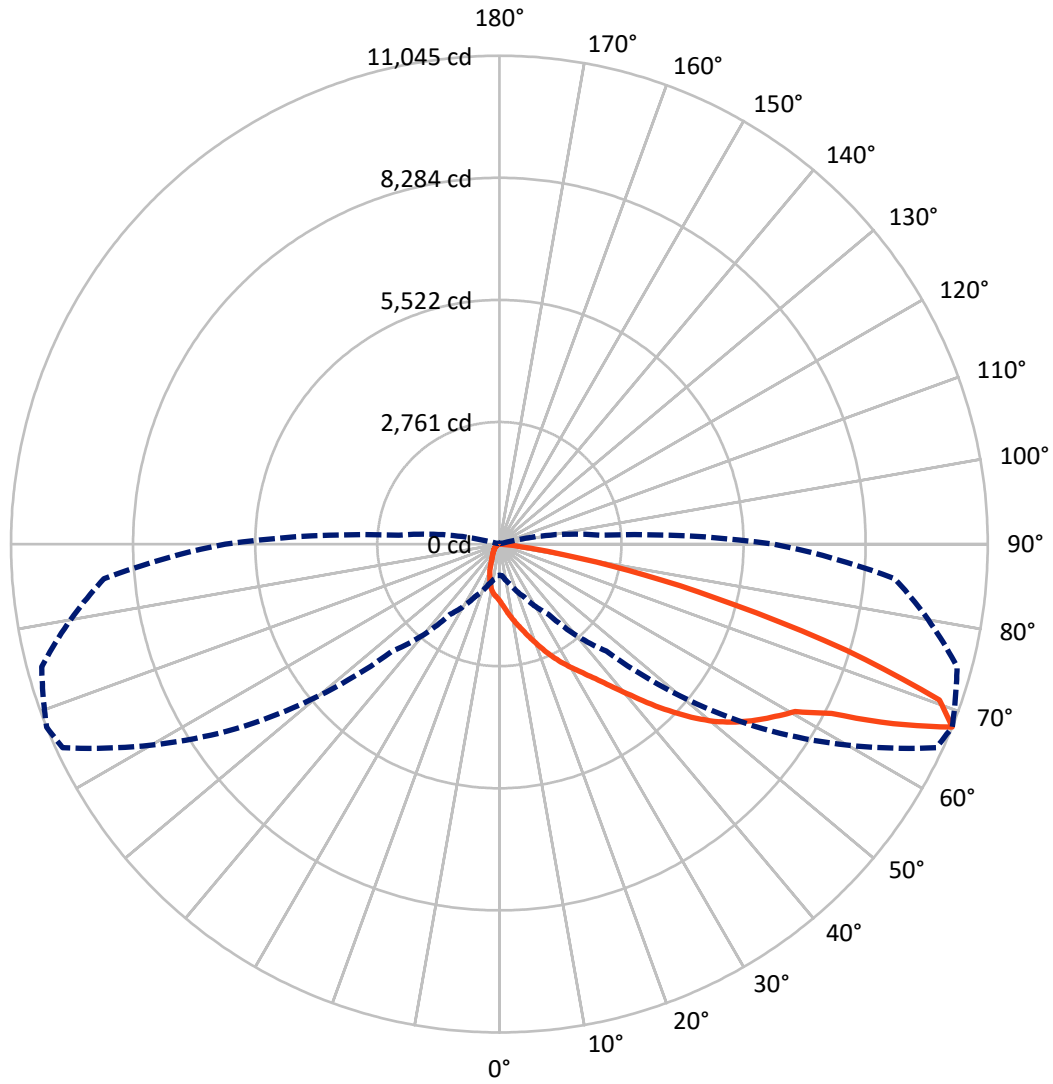
✕ Max cd  
 - - - 1/2 Max cd



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	796.3	0.0	796.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10230.5	0.0	10230.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11026.8	0.0	11026.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	1.1
10°-20°	359.4	3.3
20°-30°	617.6	5.6
30°-40°	1073.8	9.7
40°-50°	1873.8	17.0
50°-60°	2826.1	25.6
60°-70°	2833.8	25.7
70°-80°	1250.3	11.3
80°-90°	66.8	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°	11026.8	100.0
0°-180°	11026.8	100.0

**Coefficient of Utilization**



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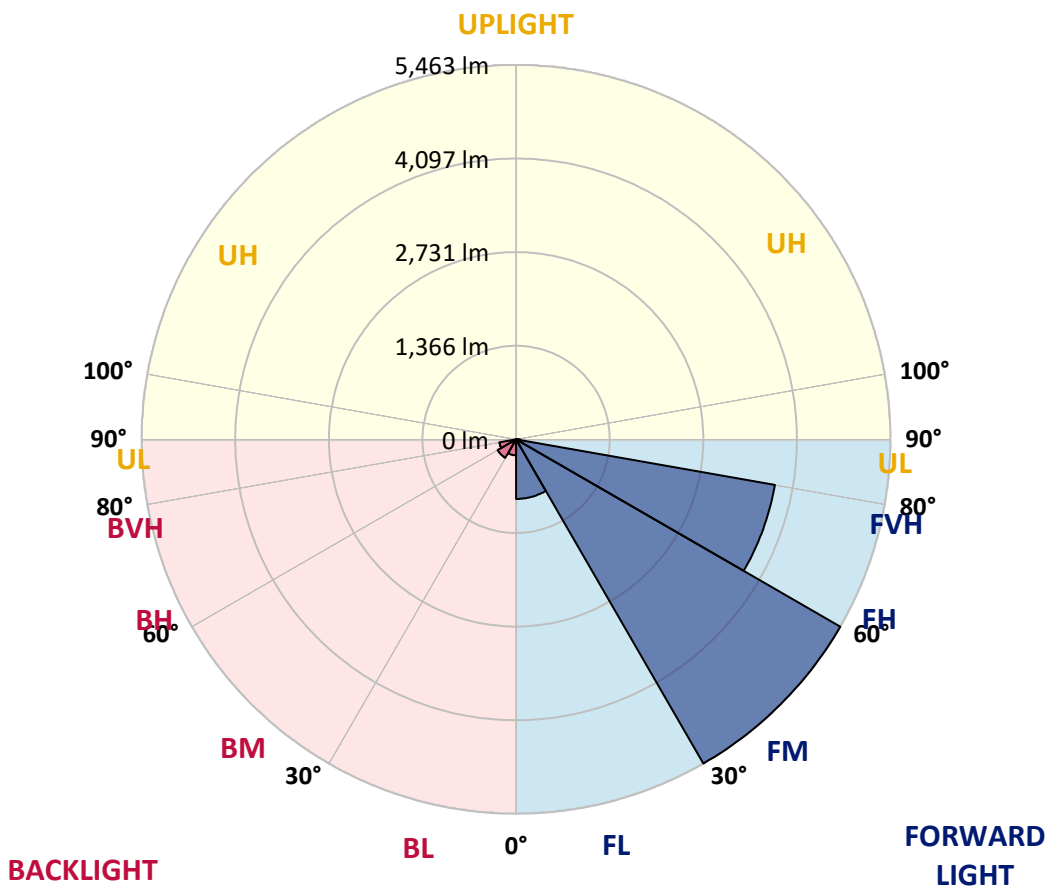
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.2	7.9			
FM (30°-60°)	5462.7	49.5			
FH (60°-80°)	3835.6	34.8			G2/5000
FVH (80°-90°)	63.0	0.6			G1/100
BL (0°-30°)	233.0	2.1	B1/500		
BM (30°-60°)	311.0	2.8	B1/1000		
BH (60°-80°)	248.5	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°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1494.3	1503.8	1494.3	1496.4	1469.0	1456.3	1428.9	1390.9	1381.4	1357.1	1320.2
5°	1676.9	1685.3	1675.8	1673.7	1642.0	1618.8	1573.4	1508.0	1489.0	1441.5	1368.7
7.5°	1776.1	1781.3	1784.5	1789.8	1778.2	1759.2	1718.0	1636.8	1616.7	1539.7	1437.3
10°	1786.6	1790.8	1806.7	1838.3	1861.5	1873.1	1849.9	1775.0	1743.3	1668.4	1521.7
12.5°	1757.1	1763.4	1788.7	1841.5	1905.9	1965.0	1979.7	1914.3	1885.8	1789.8	1620.9
15°	1718.0	1723.3	1758.1	1829.9	1927.0	2035.7	2096.9	2068.4	2036.7	1936.5	1730.7
17.5°	1657.9	1665.3	1713.8	1810.9	1936.5	2091.6	2223.5	2233.0	2210.8	2102.1	1852.0
20°	1624.1	1629.4	1672.6	1772.9	1930.1	2132.8	2341.7	2431.4	2407.1	2293.2	1991.3
22.5°	1652.6	1656.8	1685.3	1763.4	1909.0	2156.0	2451.5	2629.8	2616.1	2497.9	2138.0
25°	1802.4	1816.2	1799.3	1813.0	1918.5	2168.6	2540.1	2828.2	2831.4	2712.1	2290.0
27.5°	2106.4	2088.4	2048.3	1979.7	1992.4	2202.4	2616.1	3015.0	3042.4	2921.1	2425.1
30°	2415.6	2405.0	2380.7	2274.2	2185.5	2277.3	2680.5	3206.0	3249.3	3126.8	2545.4
32.5°	2762.8	2773.3	2730.0	2602.4	2451.5	2429.3	2746.9	3387.5	3468.8	3360.1	2686.8
35°	3177.5	3180.7	3095.2	2953.8	2782.8	2680.5	2866.2	3588.0	3737.9	3657.7	2875.7
37.5°	3581.7	3600.7	3554.2	3331.6	3179.6	2992.8	3063.5	3845.5	4056.6	4024.9	3113.1
40°	3939.4	3969.0	3954.2	3738.9	3539.5	3382.2	3369.6	4147.3	4441.7	4477.6	3426.5
42.5°	4224.3	4243.3	4255.0	4101.9	3925.7	3837.1	3747.4	4497.7	4896.6	5043.3	3810.7
45°	4525.1	4531.4	4555.7	4452.3	4298.2	4305.6	4193.7	4923.0	5375.7	5670.1	4251.8
47.5°	4908.2	4929.3	4917.7	4809.0	4669.7	4753.1	4654.9	5360.9	5848.4	6339.2	4703.5
50°	5374.6	5396.8	5386.2	5259.6	5104.5	5139.3	5078.1	5786.2	6304.3	6970.2	5079.1
52.5°	5615.2	5633.2	5764.0	5821.0	5739.8	5518.1	5439.0	6253.7	6689.5	7489.4	5424.2
55°	5499.1	5511.8	5796.7	6037.3	6334.9	6113.3	5802.0	6614.6	7029.3	7894.7	5680.7
57.5°	5017.9	5086.5	5473.8	5881.2	6507.0	6701.1	6390.9	7007.2	7356.5	8176.4	5932.9
60°	4031.2	4028.1	4583.1	5314.5	6171.4	6862.6	7222.4	7538.0	7684.7	8392.8	6270.6
62.5°	2227.7	2247.8	2986.5	3950.0	5238.5	6444.7	7846.1	8455.0	8432.9	8770.6	6799.3
65°	1109.1	1149.2	1550.2	2262.6	3485.6	5326.1	7953.8	9854.3	9791.0	9660.2	7891.5
67.5°	703.9	719.7	941.3	1314.9	1937.5	3423.4	7283.6	10898.0	11044.7	10715.5	8975.3
70°	455.9	482.3	654.3	899.1	1169.3	1764.5	5335.6	10221.6	10558.2	10599.4	8299.9
72.5°	248.0	267.0	417.9	641.6	844.2	882.2	2997.0	7670.9	8212.3	8991.1	6493.2
75°	141.4	155.1	229.0	435.8	619.5	537.1	1328.6	5135.1	5480.1	6425.7	4652.8
77.5°	85.5	97.1	128.7	212.1	388.3	358.8	502.3	3125.8	3345.3	3833.9	2442.0
80°	39.0	46.4	81.3	117.1	212.1	169.9	192.1	1457.4	1504.9	1573.4	808.4
82.5°	17.9	21.1	36.9	69.6	120.3	98.1	73.9	336.6	473.8	448.5	205.8
85°	2.1	2.1	13.7	28.5	33.8	25.3	30.6	76.0	96.0	135.1	59.1
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	6.3	9.5	13.7	22.2	14.8
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°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1303.3	1273.7	1247.4	1208.3	1181.9	1152.4	1132.3	1108.1	1098.6	1091.2	1080.6
5°	1332.8	1285.3	1221.0	1149.2	1090.1	1034.2	982.5	948.7	919.2	914.9	900.2
7.5°	1381.4	1310.7	1202.0	1084.8	984.6	891.7	818.9	759.8	730.3	720.8	703.9
10°	1445.8	1348.7	1173.5	994.1	849.5	738.7	656.4	589.9	543.5	526.6	513.9
12.5°	1517.5	1383.5	1128.1	882.2	717.6	591.0	486.5	415.8	386.2	375.7	366.2
15°	1599.8	1416.2	1056.4	770.4	588.9	434.8	360.9	330.3	317.6	314.5	311.3
17.5°	1679.0	1437.3	970.9	654.3	452.7	337.7	302.9	291.3	288.1	284.9	282.8
20°	1768.7	1452.1	870.6	544.5	351.4	286.0	269.1	260.7	254.3	248.0	246.9
22.5°	1860.5	1452.1	761.9	436.9	294.4	256.4	237.4	221.6	210.0	203.7	201.6
25°	1948.1	1432.0	654.3	349.3	259.6	227.9	203.7	185.7	169.9	162.5	160.4
27.5°	2010.3	1380.3	560.4	295.5	235.3	202.6	173.1	153.0	140.4	133.0	131.9
30°	2049.4	1303.3	473.8	263.8	214.2	176.2	146.7	129.8	120.3	115.0	112.9
32.5°	2078.9	1208.3	396.8	241.7	194.2	153.0	127.7	114.0	105.5	101.3	100.3
35°	2138.0	1118.6	339.8	221.6	173.1	134.0	111.9	101.3	95.0	89.7	88.6
37.5°	2220.3	1043.7	294.4	203.7	153.0	119.2	101.3	91.8	86.5	81.3	80.2
40°	2341.7	996.2	260.7	185.7	135.1	107.6	92.9	84.4	77.0	71.8	70.7
42.5°	2528.5	974.0	238.5	167.8	119.2	97.1	85.5	74.9	67.5	62.3	61.2
45°	2751.2	985.6	219.5	149.9	108.7	89.7	76.0	65.4	58.0	52.8	51.7
47.5°	2989.7	1026.8	203.7	133.0	98.1	82.3	67.5	55.9	49.6	44.3	43.3
50°	3238.7	1094.3	190.0	117.1	89.7	73.9	58.0	48.5	42.2	38.0	36.9
52.5°	3455.0	1186.2	176.2	105.5	82.3	65.4	50.7	42.2	35.9	31.7	30.6
55°	3661.9	1272.7	165.7	95.0	73.9	57.0	44.3	35.9	30.6	26.4	25.3
57.5°	3886.7	1364.5	153.0	85.5	66.5	50.7	39.0	30.6	26.4	22.2	21.1
60°	4213.8	1500.6	134.0	78.1	58.0	44.3	33.8	27.4	23.2	17.9	16.9
62.5°	4685.5	1748.6	112.9	67.5	49.6	38.0	28.5	23.2	19.0	14.8	12.7
65°	5567.7	2170.7	92.9	55.9	40.1	31.7	24.3	19.0	14.8	10.6	9.5
67.5°	6203.0	2280.5	74.9	45.4	32.7	24.3	20.1	14.8	10.6	7.4	6.3
70°	5423.2	1637.8	58.0	36.9	27.4	19.0	15.8	11.6	7.4	5.3	4.2
72.5°	4086.1	1070.1	43.3	28.5	21.1	15.8	11.6	9.5	6.3	4.2	3.2
75°	2879.9	618.4	31.7	21.1	14.8	11.6	9.5	7.4	5.3	3.2	3.2
77.5°	1476.4	255.4	22.2	14.8	10.6	7.4	6.3	4.2	4.2	3.2	2.1
80°	448.5	84.4	12.7	9.5	7.4	5.3	3.2	3.2	3.2	2.1	1.1
82.5°	102.4	27.4	7.4	7.4	5.3	4.2	3.2	1.1	1.1	0.0	0.0
85°	26.4	8.4	6.3	5.3	5.3	4.2	2.1	1.1	0.0	0.0	0.0
87.5°	9.5	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)