

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: P632427

Luminaire Tested: GWS-SA2C-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-760-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

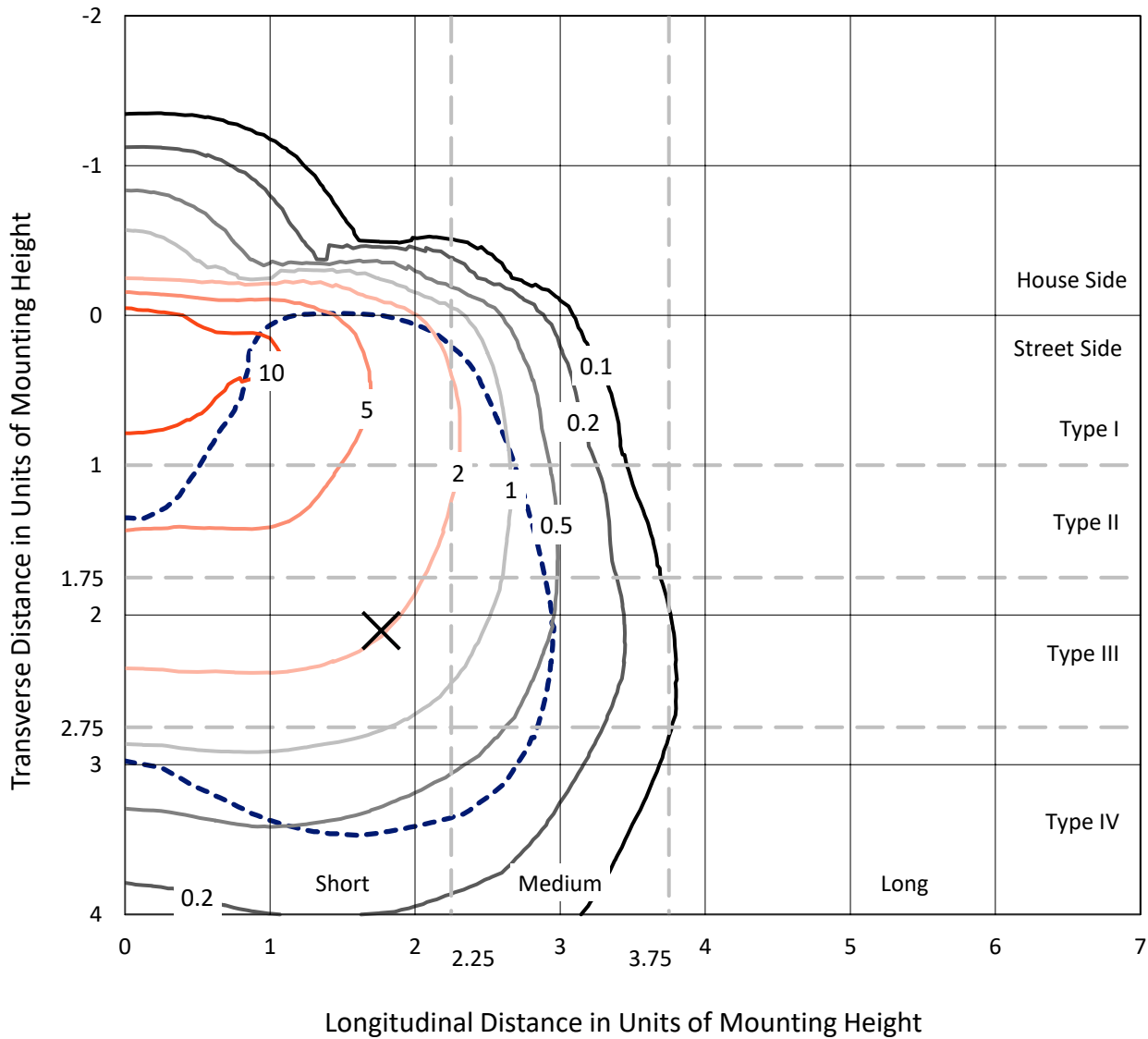
Lumens per Lamp: N/A  
Luminaire Lumens: 7357.2 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

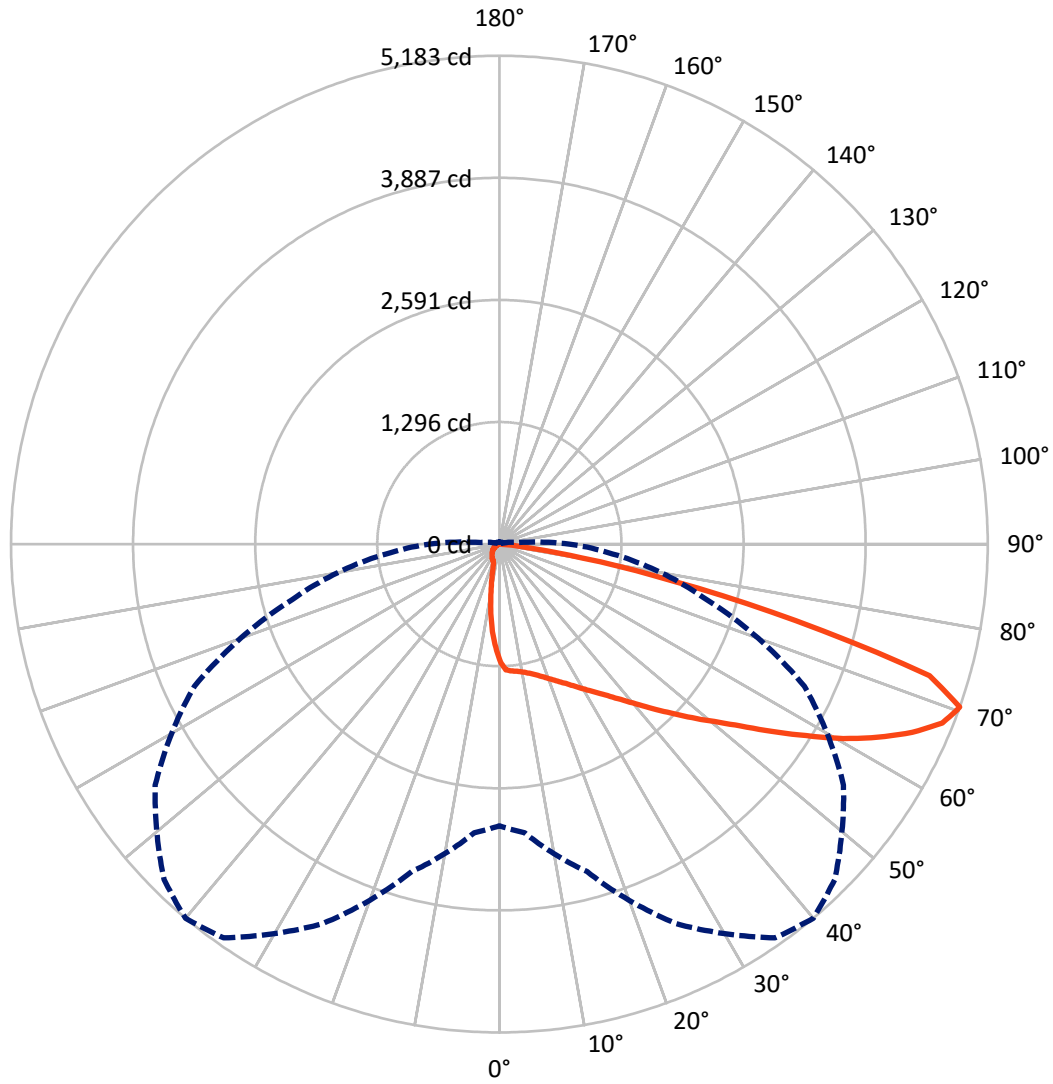
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	601.6	0.0	601.6
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	6755.6	0.0	6755.6
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	7357.2	0.0	7357.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.5	1.4
10°-20°	267.6	3.6
20°-30°	447.9	6.1
30°-40°	703.5	9.6
40°-50°	1112.7	15.1
50°-60°	1623.2	22.1
60°-70°	2012.2	27.4
70°-80°	1018.1	13.8
80°-90°	66.5	0.9
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°	7357.2	100.0
0°-180°	7357.2	100.0

**Coefficient of Utilization**



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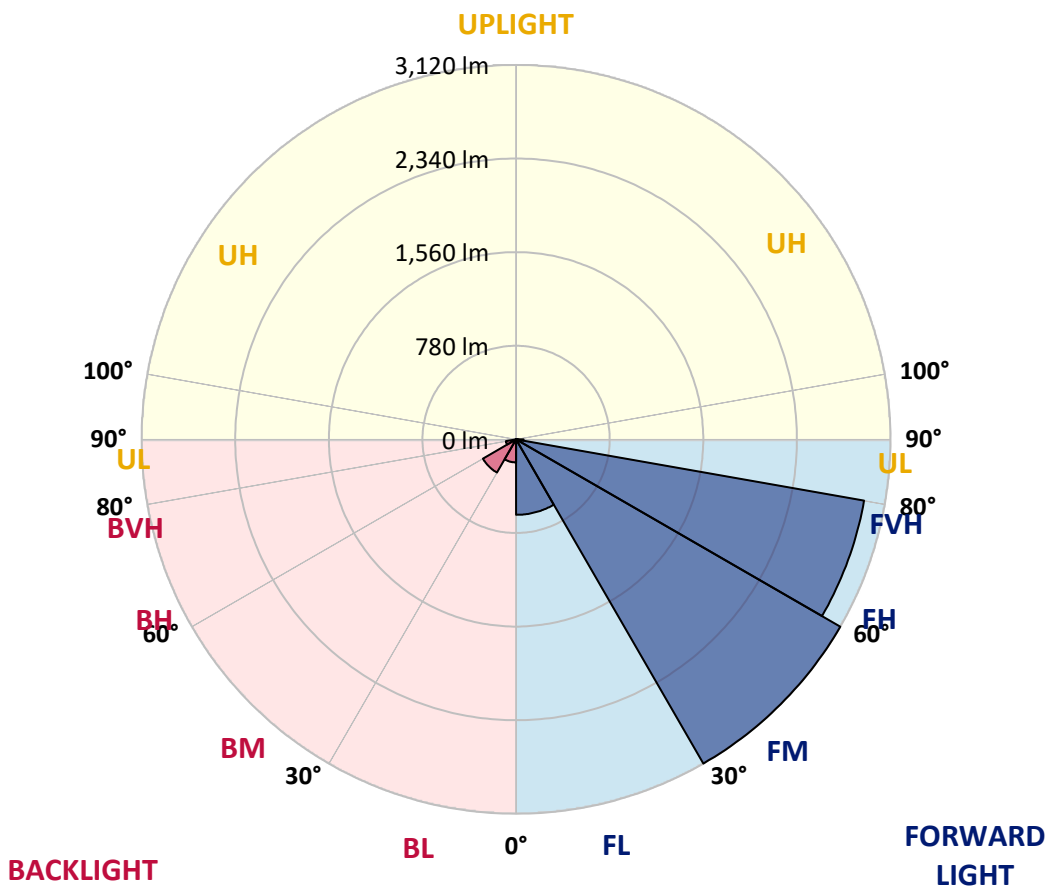
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.9	8.5			
FM (30°-60°)	3120.1	42.4			
FH (60°-80°)	2944.5	40.0			G2/5000
FVH (80°-90°)	62.1	0.8			G1/100
BL (0°-30°)	192.1	2.6	B1/500		
BM (30°-60°)	319.3	4.3	B1/1000		
BH (60°-80°)	85.8	1.2	B0/110		G0/110
BVH (80°-90°)	4.4	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4
2.5°	1342.1	1346.8	1346.2	1348.2	1343.5	1336.1	1334.8	1324.7	1306.7	1283.9	1258.5
5°	1369.6	1374.9	1370.9	1368.9	1360.2	1352.2	1350.2	1339.5	1318.7	1287.9	1243.7
7.5°	1393.0	1394.4	1391.7	1387.0	1374.3	1363.6	1356.2	1341.5	1316.7	1285.9	1235.0
10°	1397.0	1396.4	1397.7	1398.4	1390.3	1381.0	1374.9	1354.9	1323.4	1290.6	1235.7
12.5°	1392.3	1392.3	1401.1	1411.1	1411.1	1406.4	1400.4	1382.3	1345.5	1306.7	1249.1
15°	1398.4	1400.4	1417.1	1435.9	1441.9	1437.2	1434.5	1415.8	1377.6	1334.8	1273.2
17.5°	1419.8	1421.8	1448.6	1476.7	1484.1	1478.7	1473.3	1454.6	1413.8	1366.9	1300.6
20°	1451.3	1456.6	1490.8	1526.9	1533.6	1526.9	1516.2	1490.1	1449.2	1401.7	1326.7
22.5°	1508.8	1512.2	1549.0	1587.1	1590.5	1579.8	1563.7	1527.6	1484.7	1438.5	1356.2
25°	1585.1	1589.8	1626.6	1663.5	1654.8	1638.7	1616.6	1575.8	1526.9	1482.0	1393.7
27.5°	1676.2	1681.5	1717.7	1749.8	1727.0	1708.3	1683.5	1632.7	1583.1	1542.3	1441.9
30°	1774.6	1779.3	1811.4	1840.2	1810.1	1788.0	1758.5	1706.3	1656.1	1625.3	1510.2
32.5°	1869.6	1869.0	1899.8	1923.2	1892.4	1875.0	1848.2	1795.3	1755.2	1741.8	1611.9
35°	1958.0	1958.0	1983.4	2006.9	1984.8	1975.4	1950.6	1908.5	1885.7	1901.8	1747.8
37.5°	2047.0	2042.3	2066.4	2092.5	2090.5	2091.2	2077.1	2057.1	2058.4	2115.3	1934.6
40°	2120.7	2118.6	2146.8	2180.9	2207.7	2229.1	2220.4	2227.8	2269.9	2376.4	2173.5
42.5°	2179.6	2184.2	2220.4	2274.6	2342.2	2385.7	2391.8	2421.9	2530.3	2695.0	2443.3
45°	2247.2	2247.8	2298.0	2381.1	2488.8	2557.8	2581.9	2659.5	2813.5	3025.7	2739.2
47.5°	2330.2	2322.1	2378.4	2494.8	2650.8	2752.6	2795.4	2892.5	3130.8	3348.3	2980.2
50°	2421.9	2407.2	2470.8	2629.4	2832.2	2959.4	3046.4	3188.3	3445.4	3613.4	3159.6
52.5°	2528.3	2514.3	2586.6	2784.0	3049.8	3204.4	3316.2	3459.5	3715.2	3815.6	3266.7
55°	2663.5	2649.5	2725.8	2969.5	3306.8	3507.6	3624.8	3745.3	3966.2	3964.8	3344.3
57.5°	2813.5	2794.1	2899.8	3203.7	3627.5	3836.3	3955.5	4014.4	4157.0	4080.7	3396.5
60°	2985.5	2968.1	3114.7	3482.9	3997.6	4191.1	4266.1	4242.0	4313.6	4148.9	3378.5
62.5°	3140.8	3132.8	3314.9	3778.8	4350.4	4513.8	4534.5	4429.4	4428.7	4150.3	3256.6
65°	3302.1	3317.5	3588.0	4119.5	4705.2	4815.0	4779.5	4615.5	4474.9	3986.3	2896.5
67.5°	3362.4	3407.2	3768.0	4427.4	4985.0	5070.7	5008.4	4708.6	4282.8	3434.7	2205.7
70°	2990.2	3074.5	3598.0	4444.8	5100.8	5182.5	5033.2	4458.2	3570.6	2275.3	1208.3
72.5°	2273.9	2372.3	2998.2	3639.5	4587.4	4773.5	4518.4	3632.2	2301.4	996.7	405.7
75°	1272.5	1379.0	2233.1	2740.5	3079.9	3249.9	3156.2	2330.2	1019.5	260.4	121.2
77.5°	430.4	465.9	1038.9	1695.6	2033.0	1880.3	1591.8	1157.4	374.9	99.1	64.3
80°	255.0	268.4	386.9	844.1	1069.7	887.0	700.2	427.7	190.8	52.9	44.8
82.5°	76.3	90.4	213.5	313.3	419.0	261.1	220.9	244.3	99.1	28.8	37.5
85°	0.0	0.0	45.5	97.1	109.8	42.8	42.8	138.6	18.1	12.0	27.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.3	2.0	2.7	6.0
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°	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4	1248.4
2.5°	1240.4	1217.0	1189.5	1163.4	1138.6	1106.5	1091.1	1072.4	1056.3	1047.6	1052.3
5°	1215.6	1178.8	1122.6	1065.7	1008.1	953.9	905.0	872.2	842.8	827.4	830.7
7.5°	1194.2	1144.7	1057.0	963.9	871.6	778.5	702.9	644.0	598.4	579.7	576.4
10°	1184.8	1122.6	998.7	864.9	723.0	597.8	490.7	425.7	379.5	356.8	360.8
12.5°	1189.5	1111.2	949.2	767.8	583.7	437.8	335.4	274.5	241.7	228.3	224.9
15°	1202.9	1108.5	905.0	668.7	450.5	305.9	231.6	206.8	200.2	198.8	198.8
17.5°	1218.3	1109.2	859.5	568.3	342.1	226.9	198.1	193.5	191.4	190.1	190.8
20°	1233.7	1109.2	807.3	466.6	257.0	196.1	188.8	185.4	183.4	182.7	182.7
22.5°	1252.4	1109.2	749.1	372.2	206.2	186.1	180.1	178.1	176.1	175.4	174.7
25°	1275.2	1109.9	684.8	291.2	187.4	177.4	172.7	170.7	168.7	167.3	167.3
27.5°	1308.0	1115.2	613.8	226.9	176.7	169.4	165.3	163.3	161.3	159.3	159.3
30°	1355.5	1128.6	534.2	187.4	166.7	160.7	156.6	155.3	153.3	151.3	150.6
32.5°	1426.5	1152.0	451.8	168.0	157.3	151.3	146.6	145.3	143.3	141.2	140.6
35°	1525.6	1194.9	371.5	156.0	145.3	139.2	136.6	135.9	133.2	131.2	131.2
37.5°	1670.8	1264.5	294.5	143.9	135.2	130.5	127.2	125.8	123.2	121.2	120.5
40°	1848.2	1354.9	228.9	134.5	125.8	121.2	117.8	115.8	112.5	109.8	108.4
42.5°	2074.5	1465.3	180.7	124.5	117.1	112.5	109.8	105.8	101.1	97.1	96.4
45°	2310.1	1579.1	149.3	115.1	109.1	105.1	101.7	96.4	89.7	85.0	83.7
47.5°	2490.8	1650.1	130.5	105.1	100.4	97.1	93.0	86.4	78.3	73.0	71.6
50°	2620.0	1660.8	116.5	95.7	93.0	89.7	83.7	75.6	66.9	61.6	60.2
52.5°	2683.6	1612.6	105.1	87.0	85.0	81.7	74.3	65.6	56.2	50.9	49.5
55°	2712.4	1521.5	94.4	79.7	77.0	73.0	64.9	55.6	46.2	41.5	40.2
57.5°	2701.0	1387.0	85.0	72.3	68.9	64.3	55.6	45.5	38.2	33.5	32.8
60°	2616.7	1198.2	75.6	64.9	60.9	55.6	46.9	37.5	30.8	27.4	26.8
62.5°	2434.6	963.9	66.3	56.2	53.6	48.2	40.2	30.8	25.4	23.4	22.8
65°	2061.7	681.4	56.9	47.5	46.2	40.8	33.5	25.4	22.1	20.8	20.1
67.5°	1482.0	414.4	48.2	40.8	39.5	34.8	28.1	22.1	20.1	19.4	19.4
70°	745.0	196.1	38.2	33.5	33.5	28.8	24.1	20.1	19.4	18.7	18.7
72.5°	253.0	83.7	28.8	26.1	27.4	24.8	20.8	18.7	18.7	18.7	18.7
75°	86.4	44.2	20.1	18.7	20.1	20.1	18.1	18.1	18.7	18.7	18.7
77.5°	56.2	29.5	14.1	12.7	15.4	15.4	15.4	16.7	18.1	18.1	18.1
80°	46.2	16.1	9.4	8.7	11.4	11.4	12.7	15.4	16.7	16.7	16.7
82.5°	39.5	10.0	5.4	6.0	8.0	8.7	10.7	12.7	14.7	15.4	15.4
85°	26.8	5.4	4.0	4.7	5.4	6.7	8.7	10.7	12.0	13.4	13.4
87.5°	7.4	2.0	2.7	3.3	3.3	4.7	6.7	8.0	9.4	10.0	10.0
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)