

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: P631382

Luminaire Tested: GWS-SA1F-750-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631382  
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-SA1F-750-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

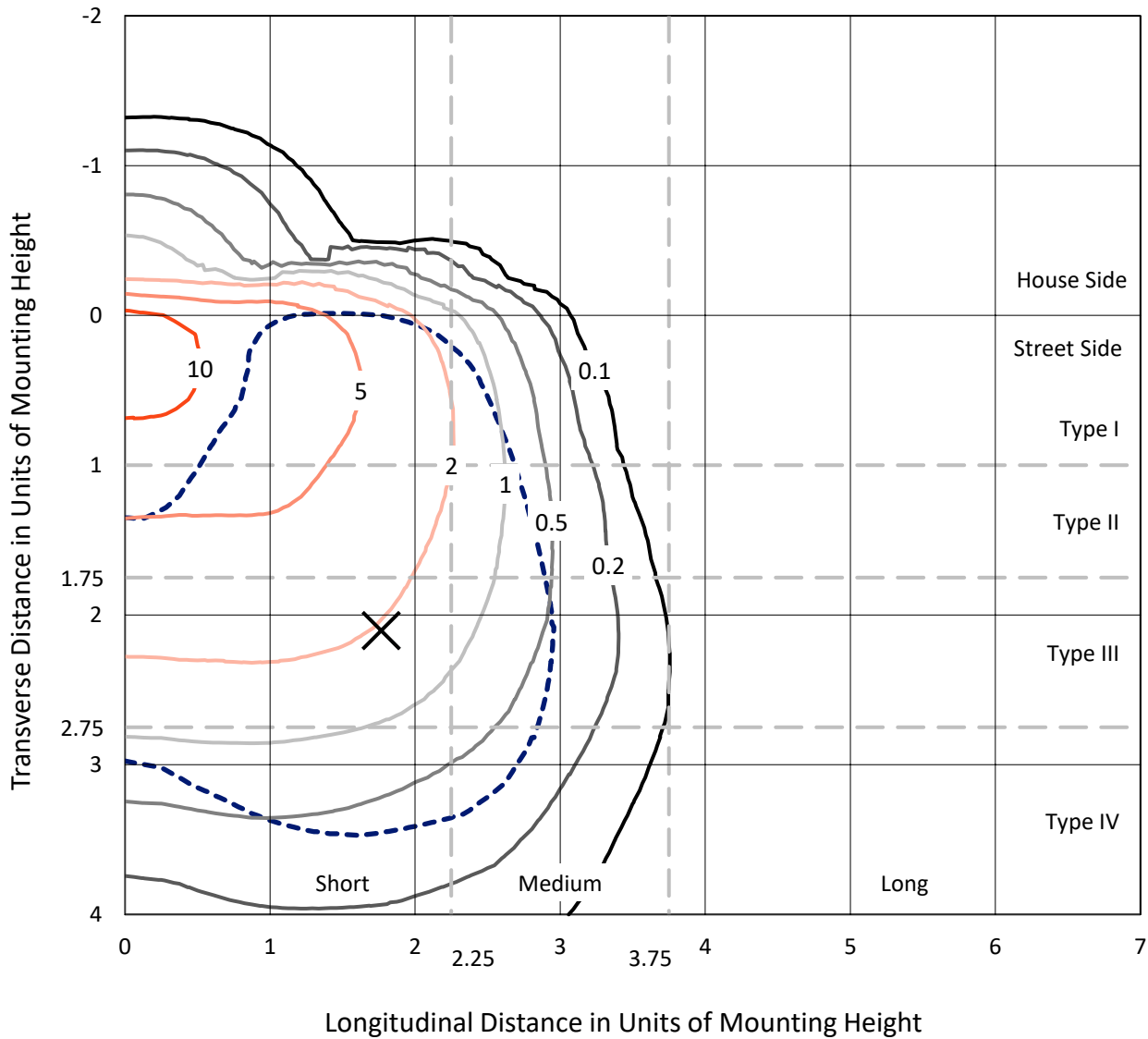
Lumens per Lamp: N/A  
Luminaire Lumens: 6790.2 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

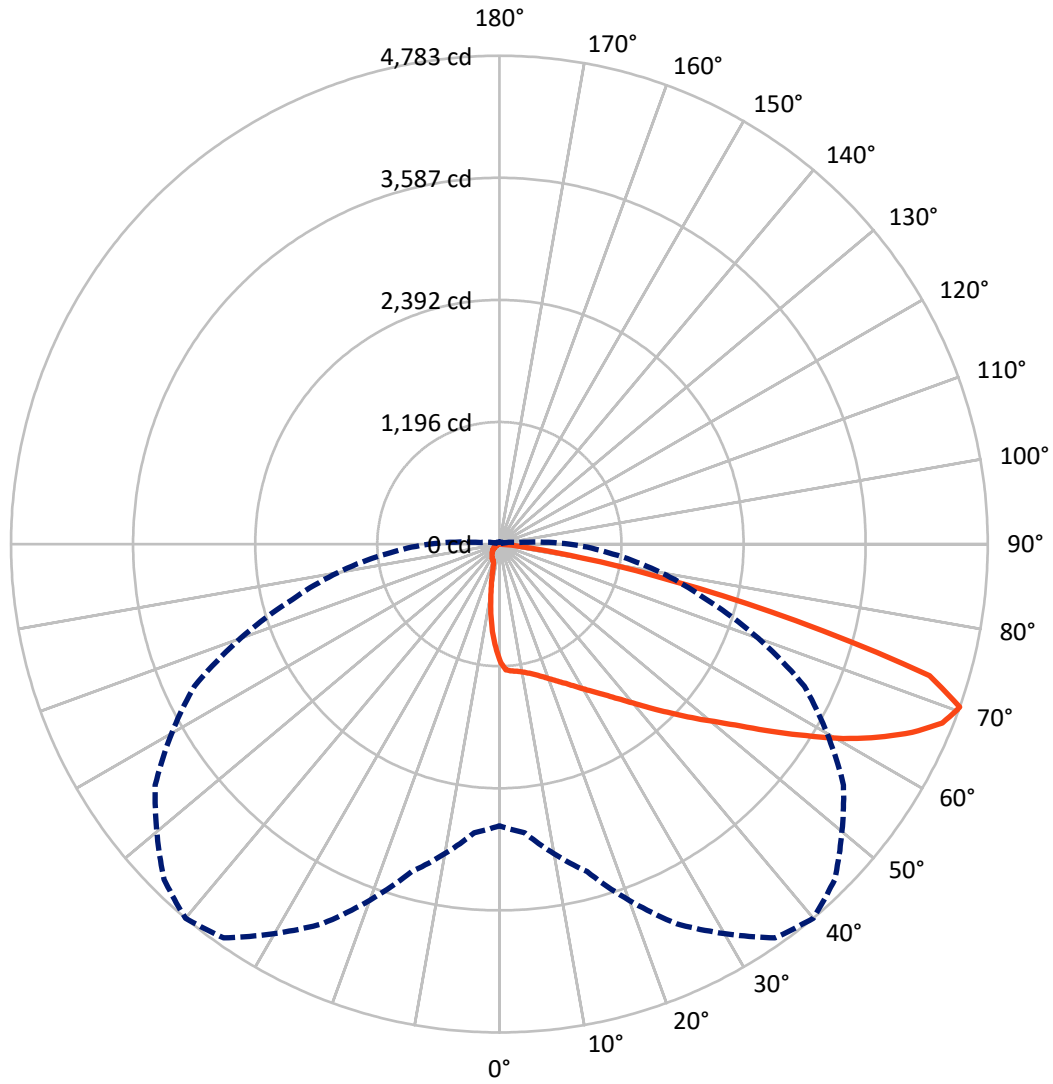
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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	555.3	0.0	555.3
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	6234.9	0.0	6234.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	6790.2	0.0	6790.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	1.4
10°-20°	247.0	3.6
20°-30°	413.4	6.1
30°-40°	649.3	9.6
40°-50°	1027.0	15.1
50°-60°	1498.1	22.1
60°-70°	1857.1	27.4
70°-80°	939.6	13.8
80°-90°	61.3	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°	6790.2	100.0
0°-180°	6790.2	100.0

**Coefficient of Utilization**



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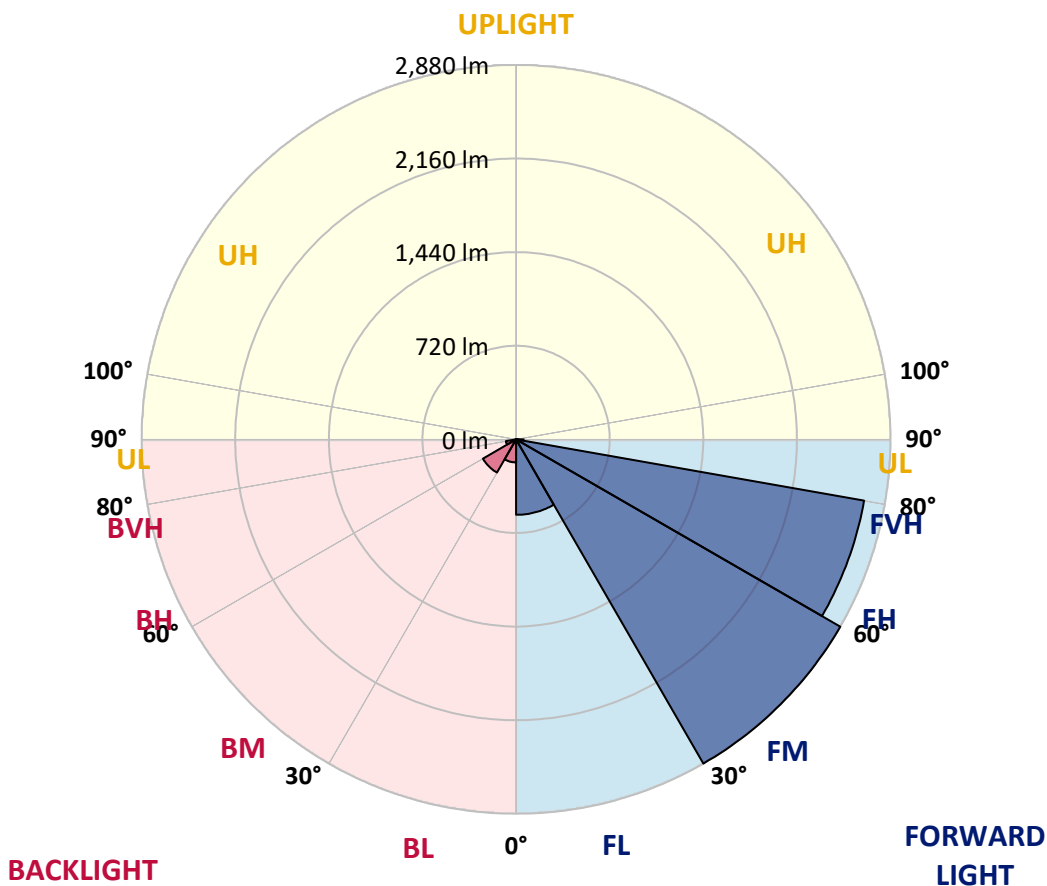
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.4	8.5			
FM (30°-60°)	2879.6	42.4			
FH (60°-80°)	2717.6	40.0			G2/5000
FVH (80°-90°)	57.3	0.8			G1/100
BL (0°-30°)	177.3	2.6	B1/500		
BM (30°-60°)	294.7	4.3	B1/1000		
BH (60°-80°)	79.2	1.2	B0/110		G0/110
BVH (80°-90°)	4.0	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°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1238.7	1243.0	1242.4	1244.3	1239.9	1233.1	1231.9	1222.6	1206.0	1185.0	1161.5
5°	1264.0	1269.0	1265.3	1263.4	1255.4	1248.0	1246.1	1236.2	1217.1	1188.7	1147.9
7.5°	1285.7	1286.9	1284.4	1280.1	1268.4	1258.5	1251.7	1238.1	1215.2	1186.8	1139.9
10°	1289.4	1288.8	1290.0	1290.6	1283.2	1274.5	1269.0	1250.4	1221.4	1191.1	1140.5
12.5°	1285.0	1285.0	1293.1	1302.3	1302.3	1298.0	1292.5	1275.8	1241.8	1206.0	1152.8
15°	1290.6	1292.5	1307.9	1325.2	1330.8	1326.4	1324.0	1306.7	1271.5	1231.9	1175.1
17.5°	1310.4	1312.2	1336.9	1362.9	1369.7	1364.7	1359.8	1342.5	1304.8	1261.6	1200.4
20°	1339.4	1344.4	1375.9	1409.2	1415.4	1409.2	1399.3	1375.2	1337.6	1293.7	1224.5
22.5°	1392.5	1395.6	1429.6	1464.8	1467.9	1458.0	1443.2	1409.8	1370.3	1327.7	1251.7
25°	1463.0	1467.3	1501.3	1535.3	1527.2	1512.4	1492.0	1454.3	1409.2	1367.8	1286.3
27.5°	1547.0	1551.9	1585.3	1615.0	1593.9	1576.7	1553.8	1506.8	1461.1	1423.4	1330.8
30°	1637.8	1642.1	1671.8	1698.4	1670.6	1650.2	1623.0	1574.8	1528.5	1500.0	1393.8
32.5°	1725.5	1724.9	1753.3	1775.0	1746.5	1730.5	1705.8	1657.0	1619.9	1607.5	1487.7
35°	1807.1	1807.1	1830.6	1852.2	1831.8	1823.2	1800.3	1761.4	1740.4	1755.2	1613.1
37.5°	1889.3	1884.9	1907.2	1931.3	1929.4	1930.0	1917.1	1898.5	1899.8	1952.3	1785.5
40°	1957.2	1955.4	1981.3	2012.8	2037.5	2057.3	2049.3	2056.1	2095.0	2193.2	2006.0
42.5°	2011.6	2015.9	2049.3	2099.3	2161.7	2201.9	2207.4	2235.2	2335.3	2487.3	2255.0
45°	2074.0	2074.6	2120.9	2197.5	2297.0	2360.7	2382.9	2454.6	2596.7	2792.5	2528.1
47.5°	2150.6	2143.2	2195.1	2302.6	2446.5	2540.4	2580.0	2669.6	2889.5	3090.3	2750.5
50°	2235.2	2221.6	2280.3	2426.8	2614.0	2731.3	2811.7	2942.6	3179.9	3334.9	2916.1
52.5°	2333.5	2320.5	2387.2	2569.5	2814.7	2957.5	3060.6	3192.8	3428.8	3521.5	3014.9
55°	2458.3	2445.3	2515.7	2740.6	3052.0	3237.3	3345.4	3456.6	3660.5	3659.3	3086.6
57.5°	2596.7	2578.7	2676.4	2956.8	3347.9	3540.7	3650.6	3705.0	3836.6	3766.2	3134.8
60°	2755.4	2739.4	2874.7	3214.5	3689.6	3868.1	3937.3	3915.1	3981.2	3829.2	3118.1
62.5°	2898.8	2891.4	3059.4	3487.5	4015.1	4165.9	4185.0	4088.0	4087.4	3830.4	3005.6
65°	3047.7	3061.9	3311.5	3802.0	4342.6	4443.9	4411.2	4259.8	4130.1	3679.1	2673.3
67.5°	3103.3	3144.7	3477.7	4086.2	4600.8	4679.9	4622.5	4345.7	3952.7	3170.0	2035.7
70°	2759.8	2837.6	3320.7	4102.3	4707.7	4783.1	4645.3	4114.6	3295.4	2099.9	1115.1
72.5°	2098.7	2189.5	2767.2	3359.0	4233.9	4405.6	4170.2	3352.2	2124.0	919.9	374.4
75°	1174.5	1272.7	2061.0	2529.3	2842.5	2999.5	2913.0	2150.6	940.9	240.3	111.8
77.5°	397.3	430.0	958.8	1564.9	1876.3	1735.4	1469.2	1068.2	346.0	91.4	59.3
80°	235.4	247.7	357.1	779.1	987.3	818.6	646.2	394.8	176.1	48.8	41.4
82.5°	70.4	83.4	197.1	289.1	386.7	240.9	203.9	225.5	91.4	26.6	34.6
85°	0.0	0.0	42.0	89.6	101.3	39.5	39.5	127.9	16.7	11.1	25.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.1	1.9	2.5	5.6
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°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1144.8	1123.2	1097.8	1073.8	1050.9	1021.2	1007.0	989.7	974.9	966.9	971.2
5°	1121.9	1088.0	1036.1	983.6	930.4	880.4	835.3	805.0	777.8	763.6	766.7
7.5°	1102.2	1056.5	975.5	889.6	804.4	718.5	648.7	594.3	552.3	535.0	531.9
10°	1093.5	1036.1	921.8	798.2	667.2	551.7	452.9	392.9	350.3	329.3	333.0
12.5°	1097.8	1025.6	876.1	708.6	538.7	404.0	309.5	253.3	223.0	210.7	207.6
15°	1110.2	1023.1	835.3	617.2	415.8	282.3	213.8	190.9	184.7	183.5	183.5
17.5°	1124.4	1023.7	793.3	524.5	315.7	209.4	182.9	178.5	176.7	175.5	176.1
20°	1138.6	1023.7	745.1	430.6	237.2	181.0	174.2	171.1	169.3	168.7	168.7
22.5°	1155.9	1023.7	691.3	343.5	190.3	171.8	166.2	164.3	162.5	161.9	161.2
25°	1176.9	1024.3	632.0	268.7	173.0	163.7	159.4	157.5	155.7	154.5	154.5
27.5°	1207.2	1029.3	566.5	209.4	163.1	156.3	152.6	150.7	148.9	147.0	147.0
30°	1251.1	1041.6	493.0	173.0	153.8	148.3	144.6	143.3	141.5	139.6	139.0
32.5°	1316.6	1063.3	417.0	155.1	145.2	139.6	135.3	134.1	132.2	130.4	129.7
35°	1408.0	1102.8	342.9	143.9	134.1	128.5	126.0	125.4	122.9	121.1	121.1
37.5°	1542.1	1167.0	271.8	132.8	124.8	120.5	117.4	116.1	113.7	111.8	111.2
40°	1705.8	1250.4	211.3	124.2	116.1	111.8	108.7	106.9	103.8	101.3	100.1
42.5°	1914.6	1352.4	166.8	114.9	108.1	103.8	101.3	97.6	93.3	89.6	89.0
45°	2132.1	1457.4	137.8	106.3	100.7	97.0	93.9	89.0	82.8	78.5	77.2
47.5°	2298.9	1522.9	120.5	97.0	92.7	89.6	85.9	79.7	72.3	67.3	66.1
50°	2418.1	1532.8	107.5	88.3	85.9	82.8	77.2	69.8	61.8	56.8	55.6
52.5°	2476.8	1488.3	97.0	80.3	78.5	75.4	68.6	60.5	51.9	47.0	45.7
55°	2503.4	1404.3	87.1	73.5	71.0	67.3	59.9	51.3	42.6	38.3	37.1
57.5°	2492.9	1280.1	78.5	66.7	63.6	59.3	51.3	42.0	35.2	30.9	30.3
60°	2415.0	1105.9	69.8	59.9	56.2	51.3	43.2	34.6	28.4	25.3	24.7
62.5°	2247.0	889.6	61.2	51.9	49.4	44.5	37.1	28.4	23.5	21.6	21.0
65°	1902.9	628.9	52.5	43.9	42.6	37.7	30.9	23.5	20.4	19.2	18.5
67.5°	1367.8	382.4	44.5	37.7	36.5	32.1	25.9	20.4	18.5	17.9	17.9
70°	687.6	181.0	35.2	30.9	30.9	26.6	22.2	18.5	17.9	17.3	17.3
72.5°	233.5	77.2	26.6	24.1	25.3	22.9	19.2	17.3	17.3	17.3	17.3
75°	79.7	40.8	18.5	17.3	18.5	18.5	16.7	16.7	17.3	17.3	17.3
77.5°	51.9	27.2	13.0	11.7	14.2	14.2	14.2	15.4	16.7	16.7	16.7
80°	42.6	14.8	8.6	8.0	10.5	10.5	11.7	14.2	15.4	15.4	15.4
82.5°	36.5	9.3	4.9	5.6	7.4	8.0	9.9	11.7	13.6	14.2	14.2
85°	24.7	4.9	3.7	4.3	4.9	6.2	8.0	9.9	11.1	12.4	12.4
87.5°	6.8	1.9	2.5	3.1	3.1	4.3	6.2	7.4	8.6	9.3	9.3
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)