

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: P633933

Luminaire Tested: GWS-SA2F-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-760-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

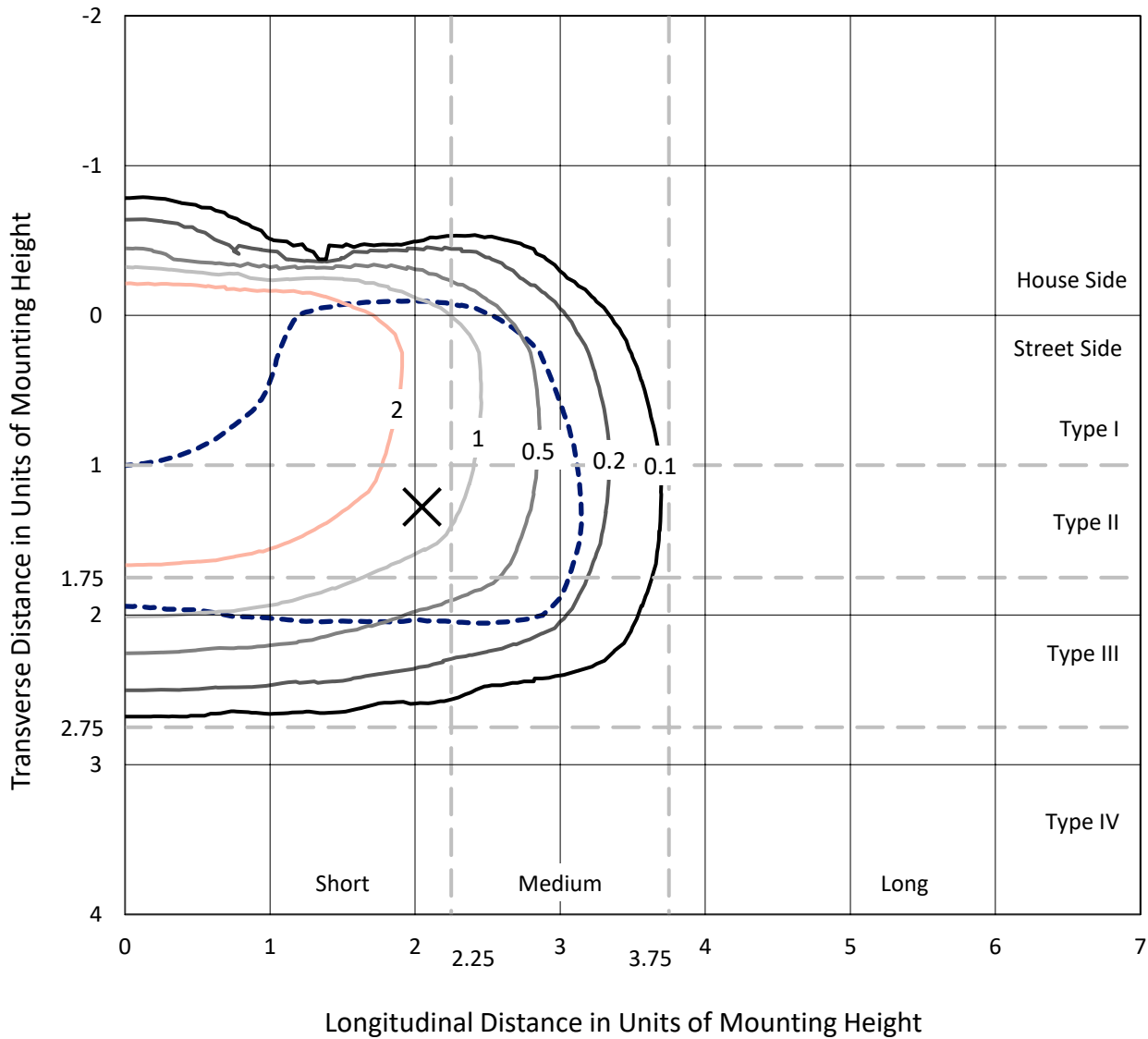
Lumens per Lamp: N/A  
Luminaire Lumens: 12015.7 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

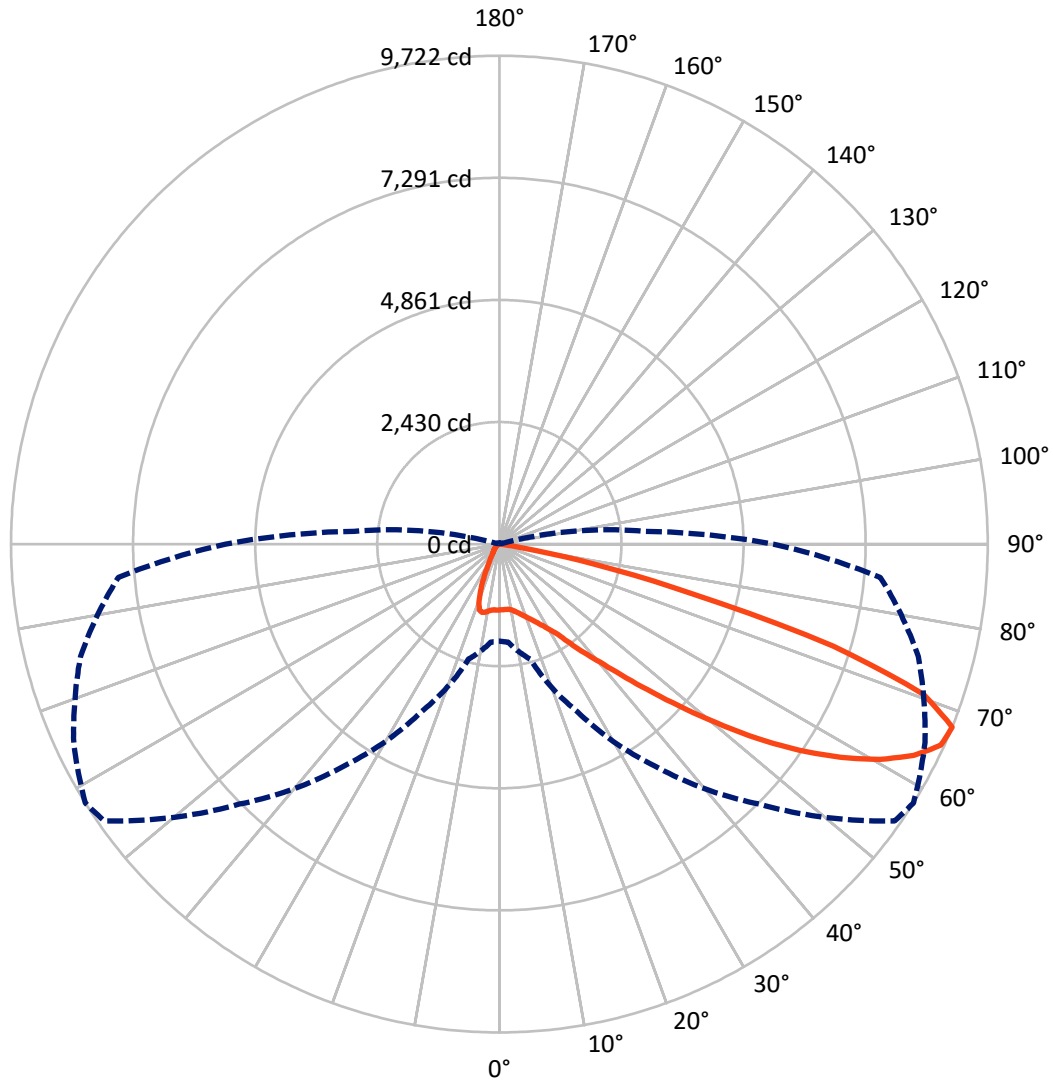
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1310.9	0.0	1310.9
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	10704.8	0.0	10704.8
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	12015.7	0.0	12015.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	1.0
10°-20°	345.3	2.9
20°-30°	602.8	5.0
30°-40°	1076.5	9.0
40°-50°	1967.7	16.4
50°-60°	3272.5	27.2
60°-70°	3554.5	29.6
70°-80°	1043.6	8.7
80°-90°	29.7	0.2
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°	12015.7	100.0
0°-180°	12015.7	100.0

**Coefficient of Utilization**



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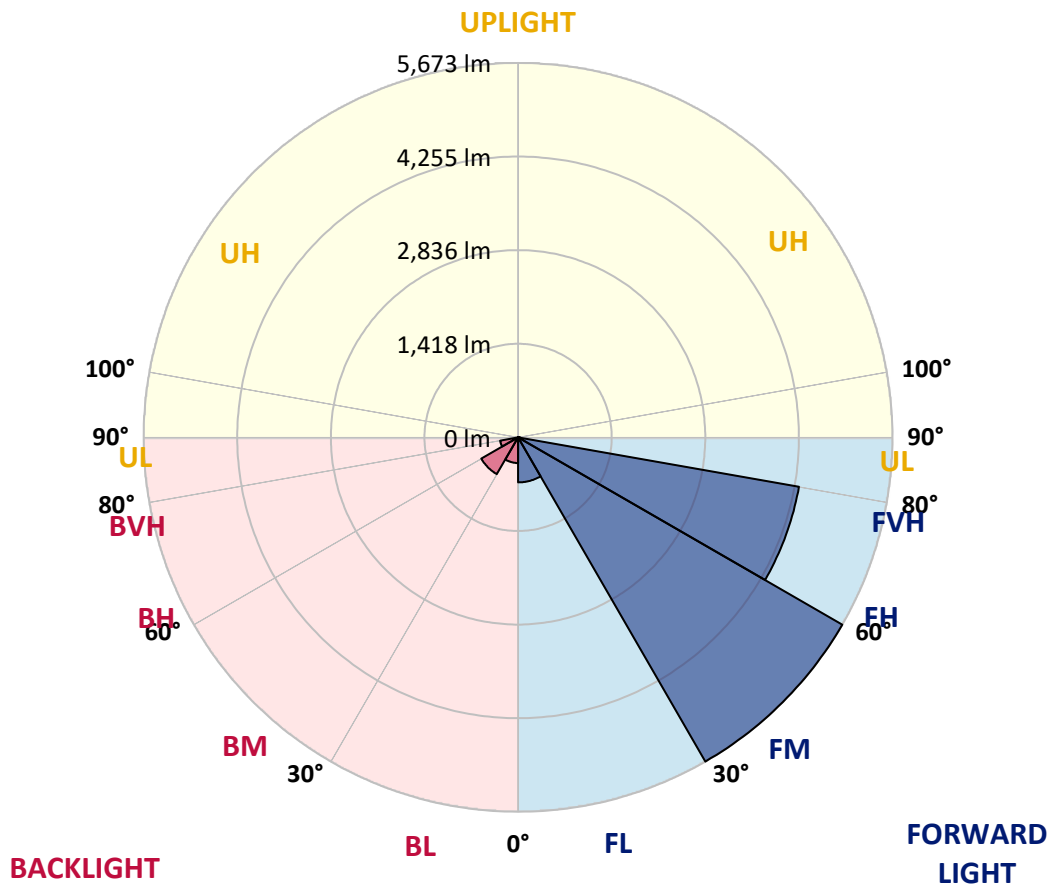
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.3	5.7			
FM (30°-60°)	5672.9	47.2			
FH (60°-80°)	4321.4	36.0			G2/5000
FVH (80°-90°)	28.3	0.2			G1/100
BL (0°-30°)	388.8	3.2	B1/500		
BM (30°-60°)	643.9	5.4	B1/1000		
BH (60°-80°)	276.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1284.7	1282.4	1282.4	1291.8	1292.9	1297.6	1308.2	1309.4	1315.2	1312.9	1304.7
5°	1217.8	1219.0	1226.1	1242.5	1256.6	1274.2	1300.0	1305.8	1318.7	1325.8	1321.1
7.5°	1155.7	1156.8	1167.4	1193.2	1220.2	1255.4	1297.6	1309.4	1335.2	1353.9	1355.1
10°	1132.2	1131.0	1141.6	1170.9	1206.1	1255.4	1316.4	1331.6	1370.4	1403.2	1409.1
12.5°	1139.2	1138.1	1148.6	1175.6	1214.3	1276.5	1349.2	1370.4	1419.6	1470.1	1480.6
15°	1167.4	1166.2	1173.3	1195.5	1237.8	1302.3	1391.5	1423.2	1485.3	1546.3	1562.8
17.5°	1251.9	1246.0	1239.0	1241.3	1265.9	1332.8	1445.4	1484.2	1561.6	1634.3	1648.4
20°	1402.0	1386.8	1368.0	1343.4	1331.6	1377.4	1507.6	1552.2	1646.1	1729.4	1731.7
22.5°	1628.5	1622.6	1579.2	1507.6	1457.2	1458.4	1580.4	1632.0	1747.0	1838.5	1825.6
25°	1944.1	1940.6	1873.7	1756.4	1625.0	1580.4	1673.1	1725.9	1866.6	1964.0	1923.0
27.5°	2336.0	2311.3	2232.7	2074.3	1878.4	1738.8	1790.4	1837.3	1993.4	2084.9	2007.4
30°	2677.4	2678.5	2604.6	2439.2	2218.6	1976.9	1933.5	1974.6	2109.5	2205.7	2111.9
32.5°	3005.9	3016.4	2935.5	2786.5	2544.8	2287.8	2138.8	2145.9	2258.5	2362.9	2249.1
35°	3310.9	3319.1	3262.8	3136.1	2910.8	2612.8	2425.1	2421.6	2482.6	2589.4	2440.4
37.5°	3652.3	3660.6	3605.4	3491.6	3280.4	2984.8	2750.1	2745.4	2770.1	2856.9	2686.8
40°	4016.1	4031.3	3970.3	3874.1	3672.3	3422.4	3127.9	3085.7	3061.0	3163.1	3005.9
42.5°	4384.5	4407.9	4386.8	4290.6	4118.1	3911.6	3618.3	3552.6	3499.8	3627.7	3461.1
45°	4842.0	4870.2	4860.8	4786.9	4653.1	4485.4	4208.5	4132.2	4107.6	4226.1	4027.8
47.5°	5282.0	5312.5	5346.5	5330.1	5235.1	5157.6	4850.2	4806.8	4799.8	4926.5	4619.1
50°	5609.3	5637.5	5767.7	5861.6	5926.1	5909.7	5643.4	5578.8	5568.3	5649.2	5243.3
52.5°	5844.0	5871.0	6050.5	6343.8	6580.8	6709.8	6441.2	6427.1	6369.6	6341.4	5827.6
55°	6025.8	6063.4	6252.3	6695.8	7173.3	7459.6	7291.8	7241.3	7093.5	6931.6	6369.6
57.5°	6062.2	6077.5	6343.8	6942.1	7633.2	8096.6	8096.6	8008.6	7723.5	7499.4	6996.1
60°	5736.0	5783.0	6143.2	6922.2	7830.3	8513.1	8764.2	8703.2	8318.4	8042.7	7599.2
62.5°	5012.1	5064.9	5503.7	6444.7	7633.2	8598.8	9269.9	9260.5	8826.4	8492.0	8099.0
65°	3843.6	3882.3	4264.8	5391.1	6800.2	8269.1	9631.2	9657.1	9227.6	8788.9	8271.4
67.5°	1931.2	1958.2	2371.1	3682.8	5389.9	7319.9	9606.6	9721.6	9349.7	8631.6	7613.3
70°	674.6	701.6	896.4	1580.4	3280.4	5589.4	8775.9	8963.7	8632.8	7368.0	5616.4
72.5°	231.1	244.0	371.9	586.6	1276.5	3313.3	6673.5	6956.2	6363.7	4946.4	3227.6
75°	131.4	139.6	199.5	318.0	535.0	1090.0	3786.1	3959.7	3709.8	2696.1	1328.1
77.5°	89.2	96.2	124.4	180.7	295.7	350.8	1544.0	1944.1	1695.4	879.9	339.1
80°	52.8	57.5	76.3	106.8	151.3	136.1	330.9	440.0	566.7	262.8	102.1
82.5°	24.6	28.2	49.3	70.4	76.3	57.5	97.4	118.5	159.6	129.1	42.2
85°	0.0	0.0	16.4	29.3	28.2	16.4	27.0	29.3	43.4	64.5	16.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	2.3	3.5	7.0	12.9	7.0
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°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1314.0	1305.8	1315.2	1310.5	1315.2	1314.0	1304.7	1298.8	1298.8	1288.2	1284.7
5°	1330.5	1322.3	1324.6	1314.0	1311.7	1305.8	1294.1	1289.4	1289.4	1278.8	1275.3
7.5°	1366.8	1353.9	1351.6	1330.5	1321.1	1304.7	1283.5	1275.3	1274.2	1263.6	1260.1
10°	1424.3	1409.1	1398.5	1371.5	1344.5	1311.7	1267.1	1229.6	1208.5	1180.3	1177.9
12.5°	1494.7	1476.0	1459.5	1418.5	1373.9	1300.0	1168.6	1031.3	946.8	879.9	884.6
15°	1573.3	1555.7	1529.9	1467.7	1376.2	1183.8	909.3	698.1	594.8	539.7	537.4
17.5°	1659.0	1633.2	1590.9	1506.5	1302.3	904.6	591.3	417.7	363.7	344.9	340.2
20°	1738.8	1707.1	1654.3	1514.7	1088.8	612.4	369.6	323.8	314.4	308.6	308.6
22.5°	1823.2	1783.3	1704.7	1451.3	809.5	391.9	314.4	303.9	296.8	288.6	287.4
25°	1908.9	1857.3	1750.5	1285.9	530.3	308.6	294.5	282.8	269.8	256.9	253.4
27.5°	1981.6	1914.8	1785.7	1039.5	340.2	278.1	268.7	248.7	231.1	217.1	214.7
30°	2068.4	1982.8	1800.9	760.3	267.5	245.2	231.1	210.0	188.9	174.8	170.1
32.5°	2184.6	2090.7	1777.5	495.1	237.0	215.9	193.6	168.9	147.8	132.6	130.2
35°	2365.3	2253.8	1669.5	315.6	214.7	186.5	159.6	133.8	116.2	104.4	102.1
37.5°	2585.9	2482.6	1492.4	237.0	192.4	161.9	130.2	105.6	92.7	84.5	82.1
40°	2913.2	2768.9	1273.0	207.7	170.1	137.3	106.8	86.8	77.4	70.4	68.0
42.5°	3337.9	3106.8	1020.7	188.9	149.0	115.0	86.8	71.6	63.4	58.7	57.5
45°	3834.2	3436.5	754.4	170.1	129.1	95.0	71.6	58.7	52.8	49.3	48.1
47.5°	4342.2	3725.1	520.9	150.2	110.3	78.6	59.8	50.4	45.8	41.1	39.9
50°	4884.3	3969.1	355.5	130.2	93.9	64.5	51.6	45.8	39.9	36.4	35.2
52.5°	5282.0	4059.5	247.6	112.6	79.8	55.1	45.8	41.1	36.4	31.7	30.5
55°	5649.2	4057.1	187.7	95.0	68.0	48.1	41.1	36.4	31.7	28.2	27.0
57.5°	6015.3	4025.4	147.8	81.0	58.7	43.4	36.4	31.7	29.3	24.6	23.5
60°	6252.3	3905.8	115.0	68.0	50.4	37.5	31.7	28.2	24.6	21.1	19.9
62.5°	6377.8	3739.2	88.0	54.0	41.1	32.9	28.2	24.6	21.1	17.6	16.4
65°	6207.7	3443.5	69.2	42.2	31.7	28.2	23.5	19.9	16.4	12.9	11.7
67.5°	5453.3	2903.8	54.0	34.0	24.6	21.1	19.9	16.4	11.7	9.4	8.2
70°	3854.1	1988.7	42.2	25.8	18.8	16.4	15.3	12.9	9.4	7.0	5.9
72.5°	2115.4	1003.1	30.5	18.8	14.1	12.9	11.7	10.6	8.2	5.9	5.9
75°	814.2	275.7	22.3	12.9	9.4	9.4	8.2	8.2	7.0	4.7	4.7
77.5°	212.4	82.1	14.1	8.2	5.9	5.9	5.9	4.7	4.7	3.5	3.5
80°	68.0	27.0	8.2	5.9	4.7	3.5	3.5	2.3	3.5	2.3	2.3
82.5°	22.3	9.4	4.7	4.7	3.5	2.3	2.3	1.2	1.2	0.0	0.0
85°	8.2	4.7	3.5	2.3	2.3	2.3	1.2	0.0	0.0	0.0	0.0
87.5°	4.7	2.3	2.3	2.3	2.3	1.2	0.0	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)