

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: P633823

Luminaire Tested: GWS-SA2F-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633823
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11909.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

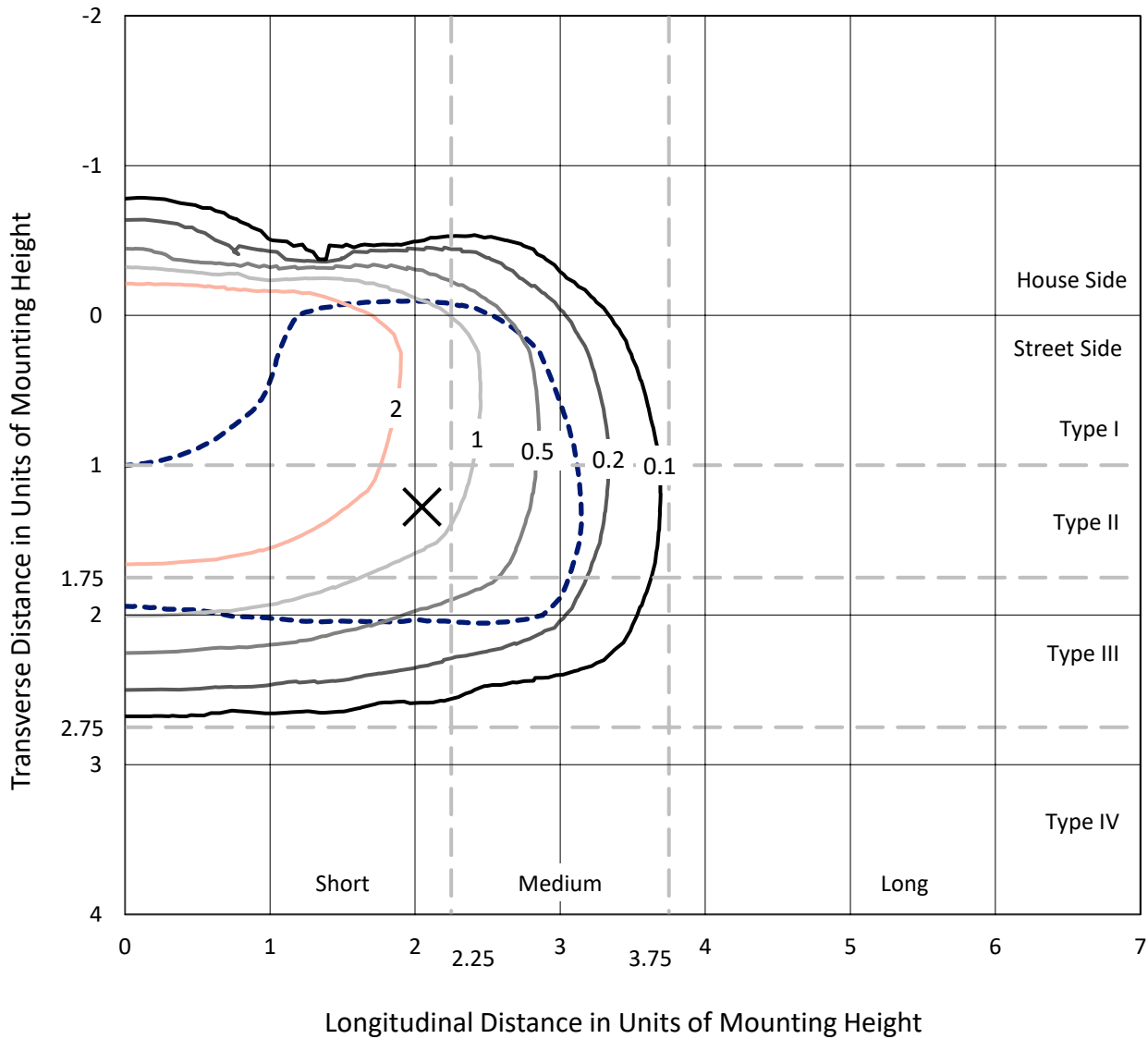
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633823
 CATALOG NUMBER: GWS-SA2F-740-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

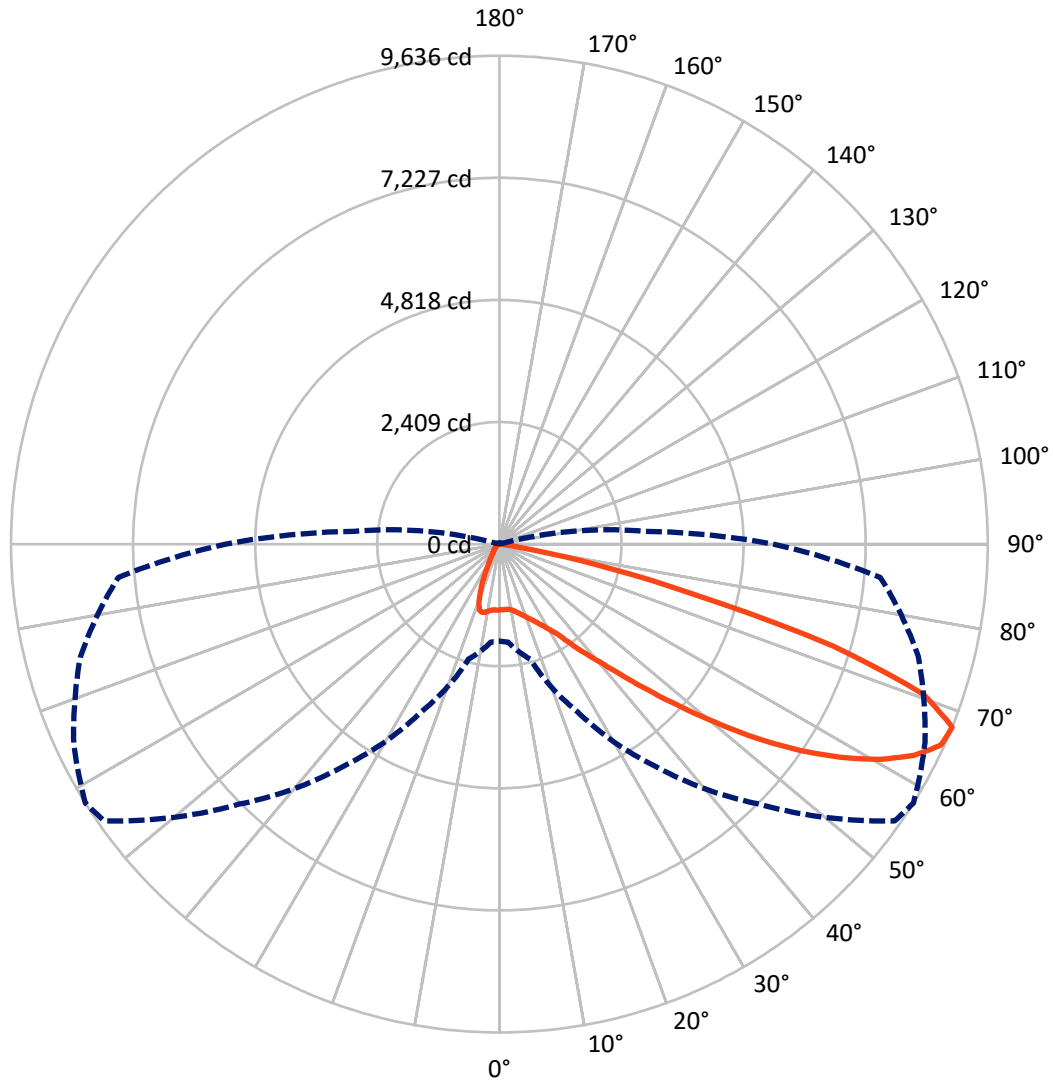
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

REPORT NUMBER: P633823
CATALOG NUMBER: GWS-SA2F-740-U-T3-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633823

CATALOG NUMBER: GWS-SA2F-740-U-T3-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.3	0.0	1299.3
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	10610.5	0.0	10610.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	11909.8	0.0	11909.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.0
10°-20°	342.3	2.9
20°-30°	597.5	5.0
30°-40°	1067.0	9.0
40°-50°	1950.4	16.4
50°-60°	3243.7	27.2
60°-70°	3523.2	29.6
70°-80°	1034.4	8.7
80°-90°	29.5	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°	11909.8	100.0
0°-180°	11909.8	100.0

Coefficient of Utilization



REPORT NUMBER: P633823

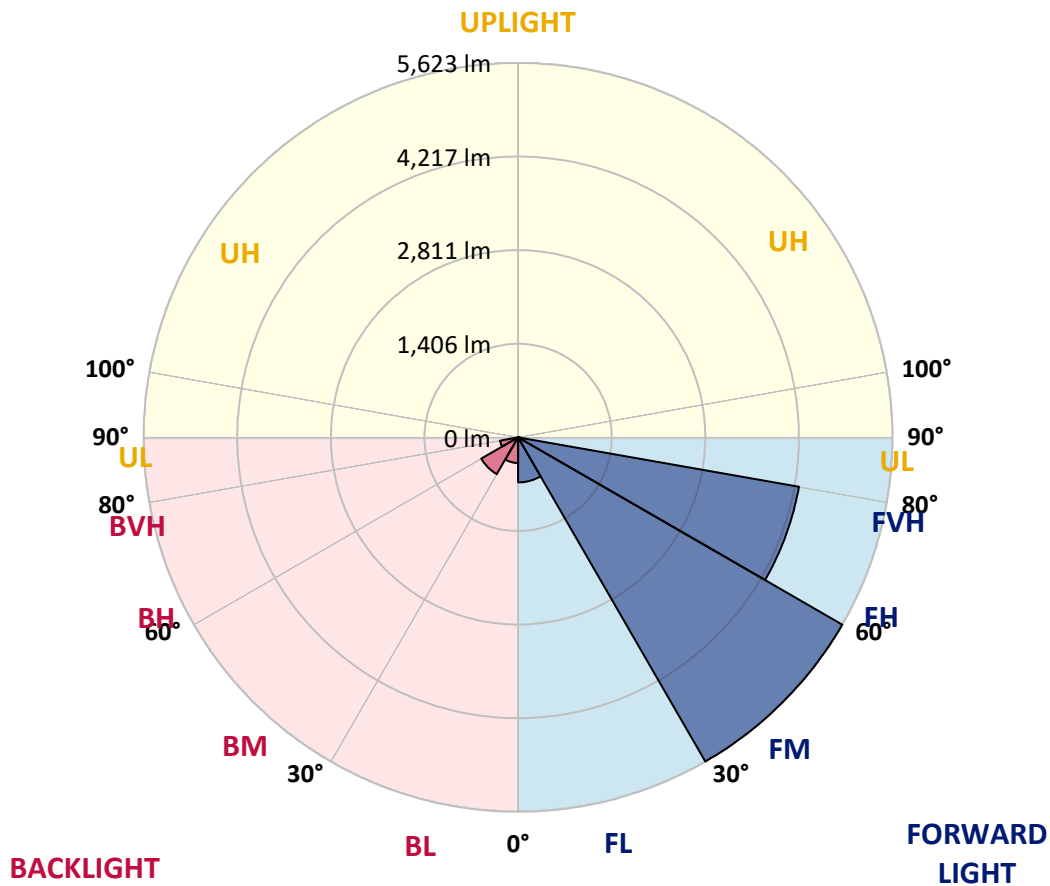
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.3	5.7			
FM (30°-60°)	5622.9	47.2			
FH (60°-80°)	4283.3	36.0			G2/5000
FVH (80°-90°)	28.0	0.2			G1/100
BL (0°-30°)	385.4	3.2	B1/500		
BM (30°-60°)	638.2	5.4	B1/1000		
BH (60°-80°)	274.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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





REPORT NUMBER: P633823

CATALOG NUMBER: GWS-SA2F-740-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1273.4	1271.1	1271.1	1280.4	1281.5	1286.2	1296.6	1297.8	1303.6	1301.3	1293.2
5°	1207.1	1208.3	1215.2	1231.5	1245.5	1262.9	1288.5	1294.3	1307.1	1314.1	1309.4
7.5°	1145.5	1146.6	1157.1	1182.7	1209.4	1244.3	1286.2	1297.8	1323.4	1342.0	1343.2
10°	1122.2	1121.0	1131.5	1160.6	1195.5	1244.3	1304.8	1319.9	1358.3	1390.8	1396.7
12.5°	1129.2	1128.0	1138.5	1165.2	1203.6	1265.3	1337.4	1358.3	1407.1	1457.1	1467.6
15°	1157.1	1155.9	1162.9	1185.0	1226.9	1290.8	1379.2	1410.6	1472.2	1532.7	1549.0
17.5°	1240.8	1235.0	1228.0	1230.4	1254.8	1321.1	1432.7	1471.1	1547.8	1619.9	1633.9
20°	1389.7	1374.6	1356.0	1331.5	1319.9	1365.3	1494.3	1538.5	1631.6	1714.1	1716.5
22.5°	1614.1	1608.3	1565.3	1494.3	1444.3	1445.5	1566.4	1617.6	1731.6	1822.3	1809.5
25°	1926.9	1923.5	1857.2	1740.9	1610.6	1566.4	1658.3	1710.6	1850.2	1946.7	1906.0
27.5°	2315.4	2290.9	2213.0	2056.0	1861.8	1723.4	1774.6	1821.1	1975.8	2066.5	1989.7
30°	2653.8	2654.9	2581.7	2417.7	2199.1	1959.5	1916.5	1957.2	2090.9	2186.3	2093.2
32.5°	2979.4	2989.9	2909.6	2761.9	2522.4	2267.7	2120.0	2127.0	2238.6	2342.1	2229.3
35°	3281.7	3289.9	3234.1	3108.5	2885.2	2589.8	2403.7	2400.3	2460.7	2566.6	2418.9
37.5°	3620.2	3628.3	3573.6	3460.8	3251.5	2958.5	2725.9	2721.2	2745.6	2831.7	2663.1
40°	3980.7	3995.8	3935.3	3839.9	3639.9	3392.2	3100.3	3058.5	3034.0	3135.2	2979.4
42.5°	4345.8	4369.1	4348.1	4252.8	4081.8	3877.2	3586.4	3521.3	3469.0	3595.7	3430.6
45°	4799.3	4827.3	4818.0	4744.7	4612.1	4445.8	4171.4	4095.8	4071.4	4188.8	3992.3
47.5°	5235.4	5265.7	5299.4	5283.1	5188.9	5112.2	4807.5	4764.5	4757.5	4883.1	4578.4
50°	5559.9	5587.8	5716.9	5809.9	5873.9	5857.6	5593.6	5529.7	5519.2	5599.4	5197.1
52.5°	5792.5	5819.2	5997.1	6287.9	6522.8	6650.7	6384.4	6370.4	6313.5	6285.6	5776.2
55°	5972.7	6009.9	6197.2	6636.8	7110.1	7393.8	7227.5	7177.5	7031.0	6870.5	6313.5
57.5°	6008.8	6023.9	6287.9	6881.0	7565.9	8025.3	8025.3	7938.1	7655.5	7433.3	6934.5
60°	5685.5	5732.0	6089.0	6861.2	7761.3	8438.1	8687.0	8626.5	8245.1	7971.8	7532.2
62.5°	4968.0	5020.3	5455.2	6387.9	7565.9	8523.0	9188.2	9178.9	8748.6	8417.2	8027.6
65°	3809.7	3848.1	4227.2	5343.6	6740.3	8196.2	9546.4	9571.9	9146.3	8711.4	8198.5
67.5°	1914.2	1940.9	2350.2	3650.4	5342.4	7255.4	9521.9	9635.9	9267.3	8555.6	7546.2
70°	668.7	695.4	888.5	1566.4	3251.5	5540.1	8698.6	8884.7	8556.7	7303.1	5566.9
72.5°	229.1	241.9	368.6	581.5	1265.3	3284.1	6614.7	6894.9	6307.6	4902.8	3199.2
75°	130.2	138.4	197.7	315.1	530.3	1080.3	3752.7	3924.8	3677.1	2672.4	1316.4
77.5°	88.4	95.4	123.3	179.1	293.1	347.7	1530.4	1926.9	1680.4	872.2	336.1
80°	52.3	57.0	75.6	105.8	150.0	134.9	327.9	436.1	561.7	260.5	101.2
82.5°	24.4	27.9	48.8	69.8	75.6	57.0	96.5	117.5	158.2	127.9	41.9
85°	0.0	0.0	16.3	29.1	27.9	16.3	26.7	29.1	43.0	64.0	16.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	2.3	3.5	7.0	12.8	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



REPORT NUMBER: P633823

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1302.5	1294.3	1303.6	1299.0	1303.6	1302.5	1293.2	1287.3	1287.3	1276.9	1273.4
5°	1318.7	1310.6	1312.9	1302.5	1300.1	1294.3	1282.7	1278.0	1278.0	1267.6	1264.1
7.5°	1354.8	1342.0	1339.7	1318.7	1309.4	1293.2	1272.2	1264.1	1262.9	1252.5	1249.0
10°	1411.8	1396.7	1386.2	1359.4	1332.7	1300.1	1255.9	1218.7	1197.8	1169.9	1167.6
12.5°	1481.6	1462.9	1446.7	1406.0	1361.8	1288.5	1158.3	1022.2	938.5	872.2	876.8
15°	1559.5	1542.0	1516.4	1454.8	1364.1	1173.4	901.3	691.9	589.6	534.9	532.6
17.5°	1644.4	1618.8	1576.9	1493.2	1290.8	896.6	586.1	414.0	360.5	341.9	337.2
20°	1723.4	1692.0	1639.7	1501.3	1079.2	607.0	366.3	321.0	311.7	305.8	305.8
22.5°	1807.2	1767.6	1689.7	1438.5	802.4	388.4	311.7	301.2	294.2	286.1	284.9
25°	1892.1	1840.9	1735.1	1274.6	525.6	305.8	291.9	280.3	267.5	254.7	251.2
27.5°	1964.2	1897.9	1770.0	1030.3	337.2	275.6	266.3	246.5	229.1	215.1	212.8
30°	2050.2	1965.3	1785.1	753.6	265.1	243.0	229.1	208.2	187.2	173.3	168.6
32.5°	2165.3	2072.3	1761.8	490.7	234.9	214.0	191.9	167.5	146.5	131.4	129.1
35°	2344.4	2234.0	1654.8	312.8	212.8	184.9	158.2	132.6	115.1	103.5	101.2
37.5°	2563.1	2460.7	1479.2	234.9	190.7	160.5	129.1	104.7	91.9	83.7	81.4
40°	2887.5	2744.5	1261.8	205.8	168.6	136.1	105.8	86.1	76.8	69.8	67.4
42.5°	3308.5	3079.4	1011.7	187.2	147.7	114.0	86.1	70.9	62.8	58.1	57.0
45°	3800.4	3406.2	747.8	168.6	127.9	94.2	70.9	58.1	52.3	48.8	47.7
47.5°	4303.9	3692.3	516.3	148.9	109.3	77.9	59.3	50.0	45.4	40.7	39.5
50°	4841.2	3934.1	352.4	129.1	93.0	64.0	51.2	45.4	39.5	36.1	34.9
52.5°	5235.4	4023.7	245.4	111.6	79.1	54.7	45.4	40.7	36.1	31.4	30.2
55°	5599.4	4021.4	186.1	94.2	67.4	47.7	40.7	36.1	31.4	27.9	26.7
57.5°	5962.3	3990.0	146.5	80.2	58.1	43.0	36.1	31.4	29.1	24.4	23.3
60°	6197.2	3871.3	114.0	67.4	50.0	37.2	31.4	27.9	24.4	20.9	19.8
62.5°	6321.6	3706.2	87.2	53.5	40.7	32.6	27.9	24.4	20.9	17.4	16.3
65°	6153.0	3413.2	68.6	41.9	31.4	27.9	23.3	19.8	16.3	12.8	11.6
67.5°	5405.2	2878.2	53.5	33.7	24.4	20.9	19.8	16.3	11.6	9.3	8.1
70°	3820.2	1971.1	41.9	25.6	18.6	16.3	15.1	12.8	9.3	7.0	5.8
72.5°	2096.7	994.3	30.2	18.6	14.0	12.8	11.6	10.5	8.1	5.8	5.8
75°	807.1	273.3	22.1	12.8	9.3	9.3	8.1	8.1	7.0	4.7	4.7
77.5°	210.5	81.4	14.0	8.1	5.8	5.8	5.8	4.7	4.7	3.5	3.5
80°	67.4	26.7	8.1	5.8	4.7	3.5	3.5	2.3	3.5	2.3	2.3
82.5°	22.1	9.3	4.7	4.7	3.5	2.3	2.3	1.2	1.2	0.0	0.0
85°	8.1	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)