

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: P633878

Luminaire Tested: GWS-SA2F-750-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633878
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12182.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

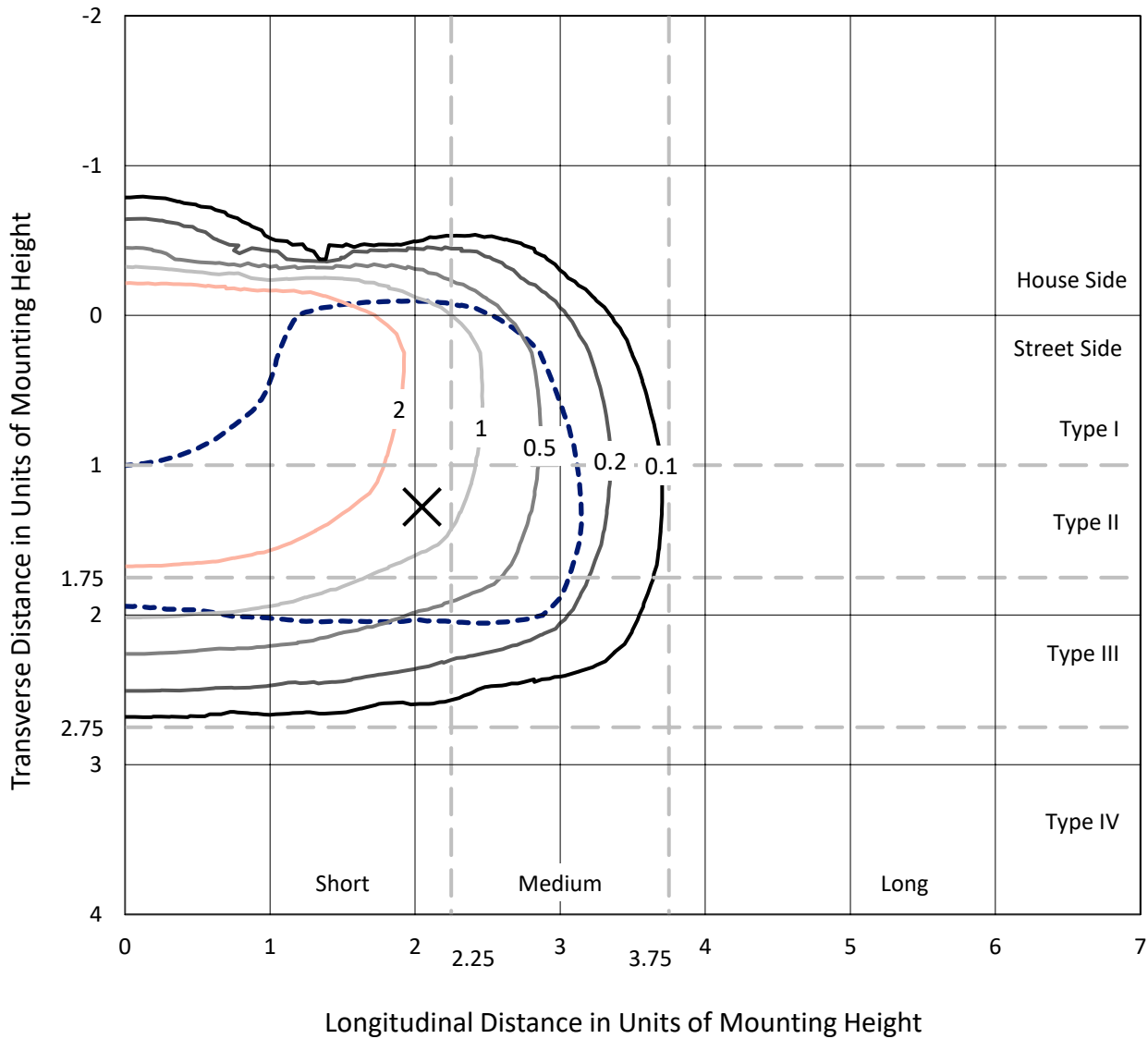
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

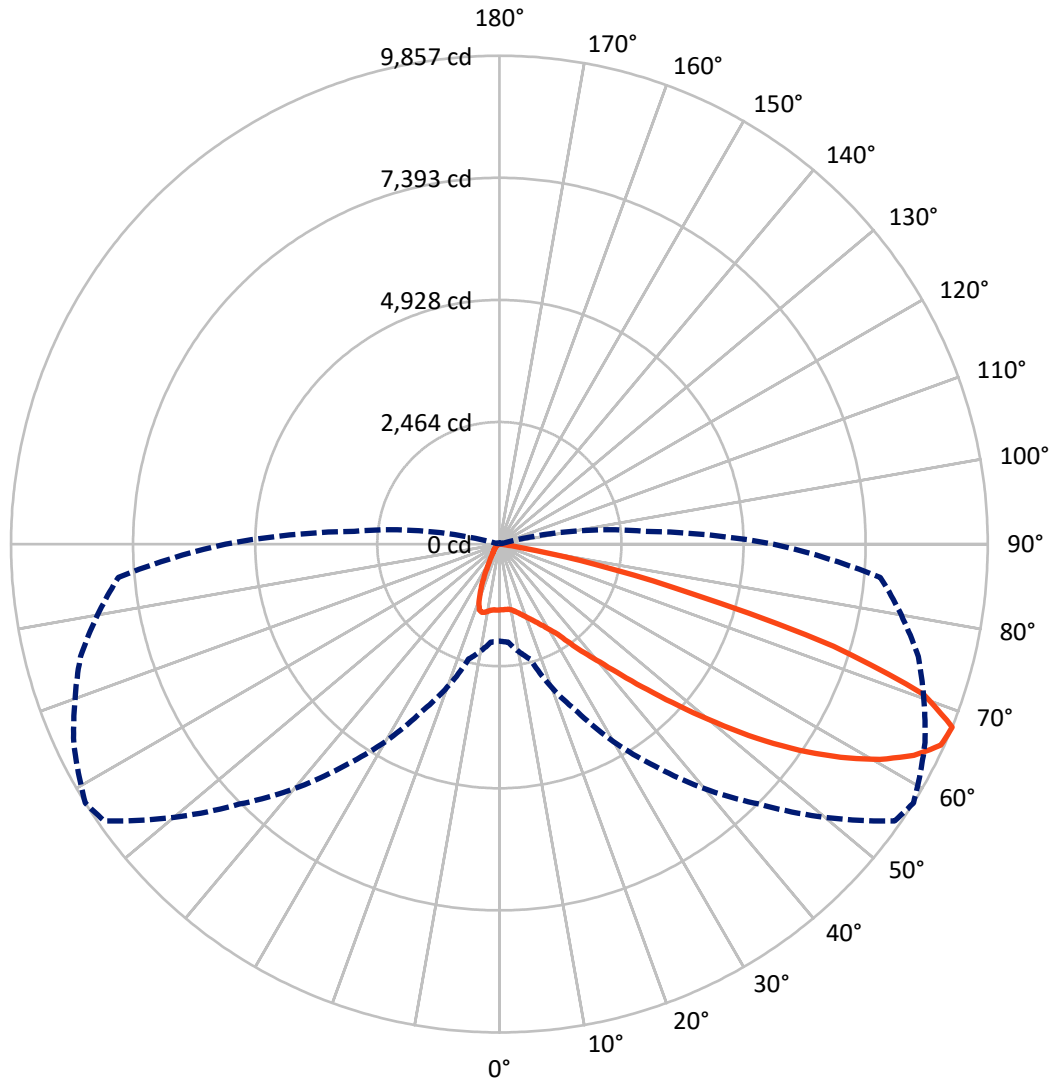
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1329.1	0.0	1329.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	10853.6	0.0	10853.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	12182.7	0.0	12182.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.0
10°-20°	350.1	2.9
20°-30°	611.2	5.0
30°-40°	1091.5	9.0
40°-50°	1995.1	16.4
50°-60°	3318.0	27.2
60°-70°	3603.9	29.6
70°-80°	1058.1	8.7
80°-90°	30.1	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°	12182.7	100.0
0°-180°	12182.7	100.0

Coefficient of Utilization



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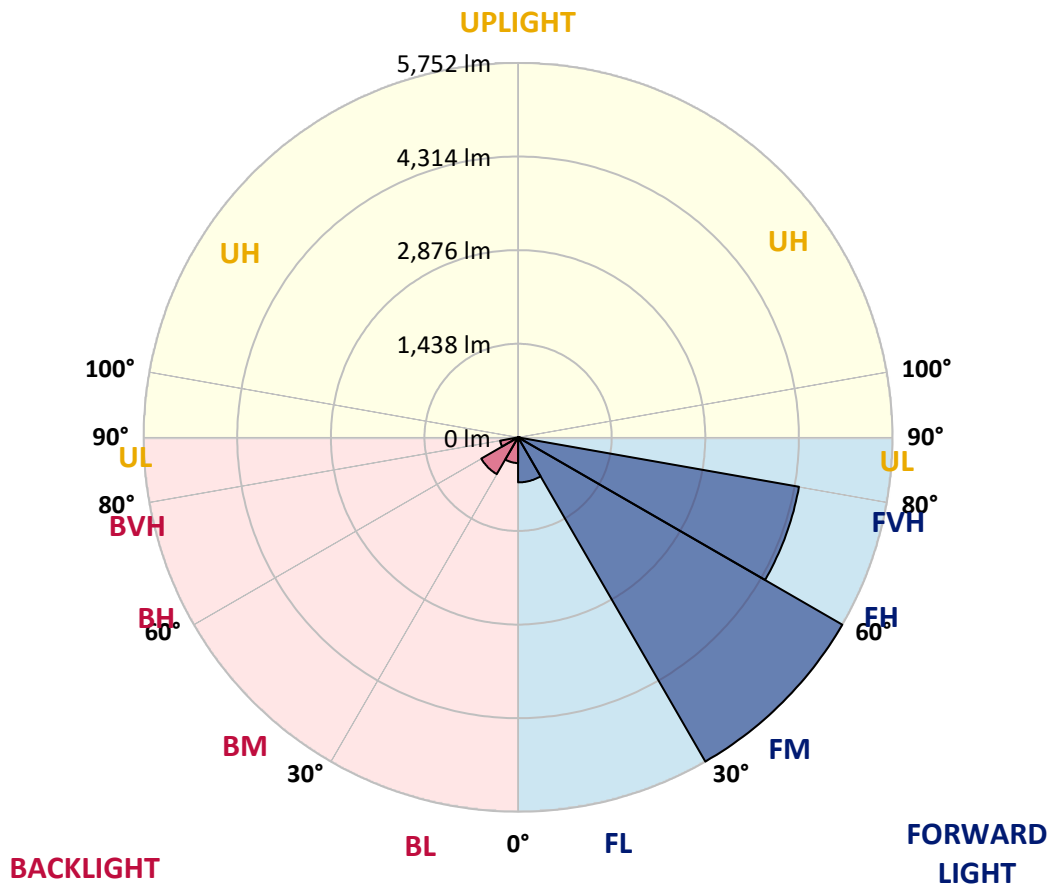
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.8	5.7			
FM (30°-60°)	5751.7	47.2			
FH (60°-80°)	4381.5	36.0			G2/5000
FVH (80°-90°)	28.7	0.2			G1/100
BL (0°-30°)	394.2	3.2	B1/500		
BM (30°-60°)	652.8	5.4	B1/1000		
BH (60°-80°)	280.6	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°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1302.6	1300.2	1300.2	1309.7	1310.9	1315.7	1326.4	1327.6	1333.5	1331.1	1322.8
5°	1234.8	1236.0	1243.1	1259.7	1274.0	1291.9	1318.0	1324.0	1337.1	1344.2	1339.4
7.5°	1171.7	1172.9	1183.6	1209.8	1237.1	1272.8	1315.7	1327.6	1353.7	1372.8	1373.9
10°	1147.9	1146.7	1157.4	1187.2	1222.9	1272.8	1334.7	1350.2	1389.4	1422.7	1428.7
12.5°	1155.1	1153.9	1164.6	1191.9	1231.2	1294.2	1368.0	1389.4	1439.4	1490.5	1501.2
15°	1183.6	1182.4	1189.6	1212.2	1255.0	1320.4	1410.8	1442.9	1506.0	1567.8	1584.5
17.5°	1269.3	1263.3	1256.2	1258.6	1283.5	1351.3	1465.5	1504.8	1583.3	1657.1	1671.3
20°	1421.5	1406.1	1387.0	1362.0	1350.2	1396.5	1528.6	1573.8	1669.0	1753.4	1755.8
22.5°	1651.1	1645.2	1601.1	1528.6	1477.4	1478.6	1602.3	1654.7	1771.3	1864.0	1851.0
25°	1971.1	1967.5	1899.7	1780.8	1647.5	1602.3	1696.3	1749.8	1892.6	1991.3	1949.7
27.5°	2368.4	2343.4	2263.7	2103.1	1904.5	1762.9	1815.3	1862.9	2021.1	2113.9	2035.3
30°	2714.6	2715.8	2640.8	2473.1	2249.5	2004.4	1960.4	2002.0	2138.8	2236.4	2141.2
32.5°	3047.7	3058.4	2976.3	2825.2	2580.2	2319.6	2168.6	2175.7	2289.9	2395.8	2280.4
35°	3356.9	3365.3	3308.2	3179.7	2951.3	2649.2	2458.8	2455.3	2517.1	2625.4	2474.3
37.5°	3703.1	3711.4	3655.5	3540.1	3326.0	3026.2	2788.3	2783.6	2808.6	2896.6	2724.1
40°	4071.9	4087.3	4025.5	3927.9	3723.3	3470.0	3171.4	3128.5	3103.6	3207.1	3047.7
42.5°	4445.4	4469.2	4447.8	4350.2	4175.4	3966.0	3668.6	3602.0	3548.5	3678.1	3509.2
45°	4909.3	4937.9	4928.4	4853.4	4717.8	4547.7	4267.0	4189.6	4164.7	4284.8	4083.8
47.5°	5355.4	5386.3	5420.8	5404.2	5307.8	5229.3	4917.6	4873.6	4866.5	4995.0	4683.3
50°	5687.3	5715.8	5847.9	5943.0	6008.5	5991.8	5721.8	5656.4	5645.7	5727.7	5316.1
52.5°	5925.2	5952.6	6134.6	6432.0	6672.2	6803.1	6530.7	6516.4	6458.1	6429.6	5908.6
55°	6109.6	6147.7	6339.2	6788.8	7273.0	7563.2	7393.1	7342.0	7192.1	7027.9	6458.1
57.5°	6146.5	6161.9	6432.0	7038.6	7739.3	8209.2	8209.2	8119.9	7830.9	7603.7	7093.4
60°	5815.8	5863.3	6228.5	7018.4	7939.1	8631.5	8886.0	8824.2	8434.0	8154.4	7704.8
62.5°	5081.8	5135.3	5580.2	6534.3	7739.3	8718.3	9398.7	9389.2	8949.1	8610.0	8211.5
65°	3897.0	3936.3	4324.1	5466.0	6894.7	8384.0	9765.1	9791.3	9355.9	8911.0	8386.4
67.5°	1958.0	1985.4	2404.1	3734.0	5464.8	7421.7	9740.1	9856.7	9479.6	8751.6	7719.1
70°	684.0	711.4	908.8	1602.3	3326.0	5667.1	8897.9	9088.2	8752.8	7470.4	5694.4
72.5°	234.3	247.4	377.1	594.8	1294.2	3359.3	6766.2	7052.9	6452.2	5015.2	3272.5
75°	133.2	141.6	202.2	322.4	542.4	1105.1	3838.7	4014.8	3761.4	2733.6	1346.6
77.5°	90.4	97.5	126.1	183.2	299.8	355.7	1565.5	1971.1	1718.9	892.2	343.8
80°	53.5	58.3	77.3	108.3	153.5	138.0	335.5	446.1	574.6	266.5	103.5
82.5°	25.0	28.5	50.0	71.4	77.3	58.3	98.7	120.1	161.8	130.9	42.8
85°	0.0	0.0	16.7	29.7	28.5	16.7	27.4	29.7	44.0	65.4	16.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	2.4	3.6	7.1	13.1	7.1
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°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1332.3	1324.0	1333.5	1328.7	1333.5	1332.3	1322.8	1316.8	1316.8	1306.1	1302.6
5°	1349.0	1340.6	1343.0	1332.3	1329.9	1324.0	1312.1	1307.3	1307.3	1296.6	1293.1
7.5°	1385.8	1372.8	1370.4	1349.0	1339.4	1322.8	1301.4	1293.1	1291.9	1281.2	1277.6
10°	1444.1	1428.7	1418.0	1390.6	1363.2	1329.9	1284.7	1246.7	1225.2	1196.7	1194.3
12.5°	1515.5	1496.5	1479.8	1438.2	1393.0	1318.0	1184.8	1045.6	960.0	892.2	896.9
15°	1595.2	1577.4	1551.2	1488.1	1395.4	1200.3	921.9	707.8	603.1	547.2	544.8
17.5°	1682.0	1655.9	1613.0	1527.4	1320.4	917.2	599.5	423.5	368.8	349.7	345.0
20°	1762.9	1730.8	1677.3	1535.7	1103.9	621.0	374.7	328.3	318.8	312.9	312.9
22.5°	1848.6	1808.1	1728.4	1471.5	820.8	397.3	318.8	308.1	301.0	292.6	291.4
25°	1935.4	1883.1	1774.8	1303.8	537.7	312.9	298.6	286.7	273.6	260.5	256.9
27.5°	2009.2	1941.4	1810.5	1054.0	345.0	281.9	272.4	252.2	234.3	220.1	217.7
30°	2097.2	2010.4	1826.0	770.8	271.2	248.6	234.3	212.9	191.5	177.2	172.5
32.5°	2215.0	2119.8	1802.2	502.0	240.3	218.9	196.3	171.3	149.9	134.4	132.0
35°	2398.2	2285.1	1692.7	320.0	217.7	189.1	161.8	135.6	117.8	105.9	103.5
37.5°	2621.8	2517.1	1513.1	240.3	195.1	164.2	132.0	107.1	94.0	85.6	83.3
40°	2953.7	2807.4	1290.7	210.6	172.5	139.2	108.3	88.0	78.5	71.4	69.0
42.5°	3384.3	3150.0	1034.9	191.5	151.1	116.6	88.0	72.6	64.2	59.5	58.3
45°	3887.5	3484.2	764.9	172.5	130.9	96.4	72.6	59.5	53.5	50.0	48.8
47.5°	4402.6	3776.9	528.2	152.3	111.8	79.7	60.7	51.2	46.4	41.6	40.4
50°	4952.1	4024.3	360.4	132.0	95.2	65.4	52.3	46.4	40.4	36.9	35.7
52.5°	5355.4	4115.9	251.0	114.2	80.9	55.9	46.4	41.6	36.9	32.1	30.9
55°	5727.7	4113.5	190.3	96.4	69.0	48.8	41.6	36.9	32.1	28.5	27.4
57.5°	6098.9	4081.4	149.9	82.1	59.5	44.0	36.9	32.1	29.7	25.0	23.8
60°	6339.2	3960.0	116.6	69.0	51.2	38.1	32.1	28.5	25.0	21.4	20.2
62.5°	6466.5	3791.1	89.2	54.7	41.6	33.3	28.5	25.0	21.4	17.8	16.7
65°	6294.0	3491.4	70.2	42.8	32.1	28.5	23.8	20.2	16.7	13.1	11.9
67.5°	5529.1	2944.2	54.7	34.5	25.0	21.4	20.2	16.7	11.9	9.5	8.3
70°	3907.7	2016.3	42.8	26.2	19.0	16.7	15.5	13.1	9.5	7.1	5.9
72.5°	2144.8	1017.1	30.9	19.0	14.3	13.1	11.9	10.7	8.3	5.9	5.9
75°	825.6	279.5	22.6	13.1	9.5	9.5	8.3	8.3	7.1	4.8	4.8
77.5°	215.3	83.3	14.3	8.3	5.9	5.9	5.9	4.8	4.8	3.6	3.6
80°	69.0	27.4	8.3	5.9	4.8	3.6	3.6	2.4	3.6	2.4	2.4
82.5°	22.6	9.5	4.8	4.8	3.6	2.4	2.4	1.2	1.2	0.0	0.0
85°	8.3	4.8	3.6	2.4	2.4	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	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)