

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: P633815

Luminaire Tested: GWS-SA2F-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12151.7 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

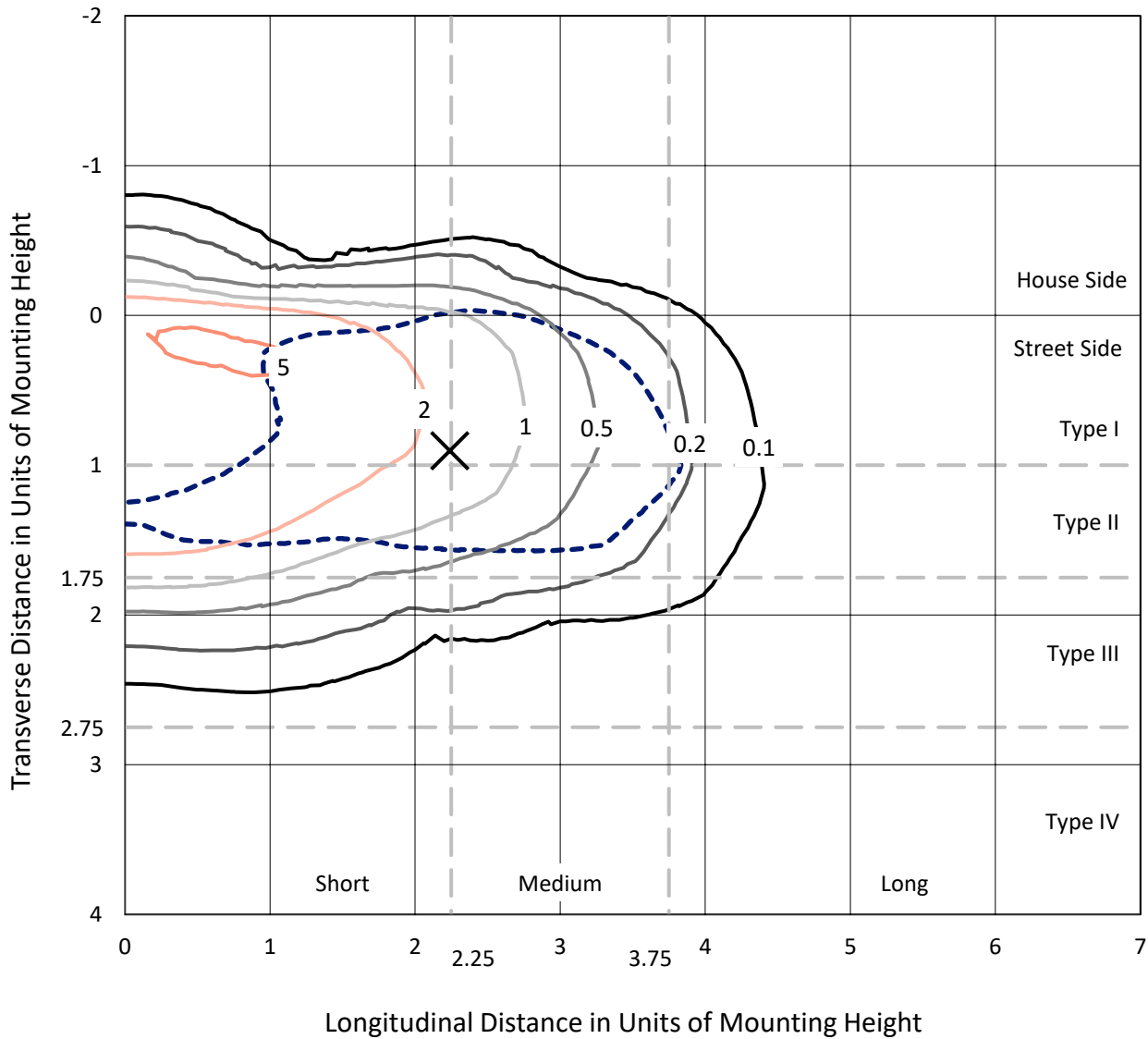
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

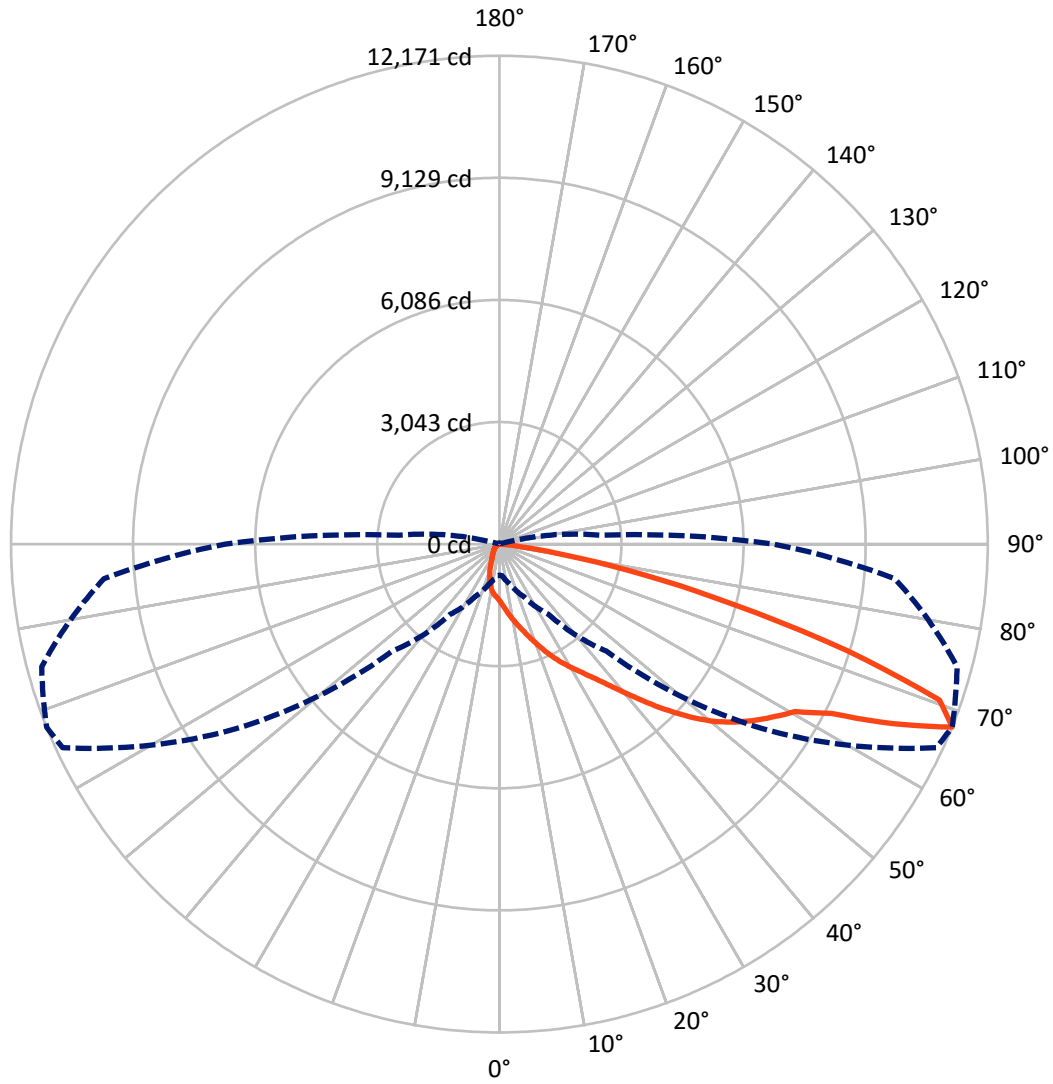
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.5	0.0	877.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11274.2	0.0	11274.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	12151.7	0.0	12151.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	396.1	3.3
20°-30°	680.6	5.6
30°-40°	1183.4	9.7
40°-50°	2064.9	17.0
50°-60°	3114.4	25.6
60°-70°	3122.9	25.7
70°-80°	1377.8	11.3
80°-90°	73.6	0.6
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°	12151.7	100.0
0°-180°	12151.7	100.0

Coefficient of Utilization



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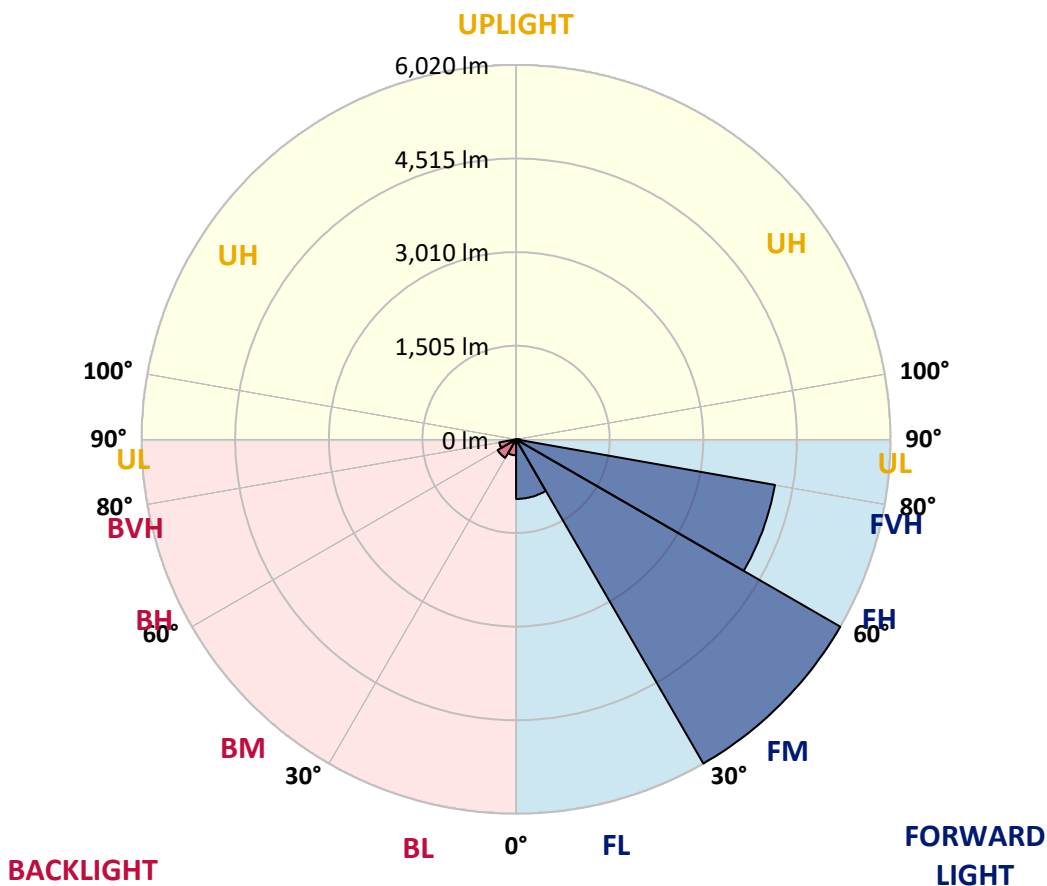
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.9	7.9			
FM (30°-60°)	6019.9	49.5			
FH (60°-80°)	4226.9	34.8			G2/5000
FVH (80°-90°)	69.4	0.6			G1/100
BL (0°-30°)	256.7	2.1	B1/500		
BM (30°-60°)	342.8	2.8	B1/1000		
BH (60°-80°)	273.8	2.3	B1/500		G1/500
BVH (80°-90°)	4.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1
2.5°	1646.7	1657.2	1646.7	1649.1	1618.8	1604.9	1574.6	1532.8	1522.3	1495.6	1454.9
5°	1847.9	1857.2	1846.8	1844.4	1809.6	1784.0	1734.0	1661.9	1640.9	1588.6	1508.3
7.5°	1957.2	1963.1	1966.6	1972.4	1959.6	1938.6	1893.3	1803.7	1781.6	1696.7	1583.9
10°	1968.9	1973.5	1991.0	2025.9	2051.4	2064.2	2038.7	1956.1	1921.2	1838.6	1677.0
12.5°	1936.3	1943.3	1971.2	2029.4	2100.3	2165.4	2181.7	2109.6	2078.2	1972.4	1786.3
15°	1893.3	1899.1	1937.5	2016.6	2123.5	2243.3	2310.8	2279.4	2244.5	2134.0	1907.2
17.5°	1827.0	1835.1	1888.6	1995.6	2134.0	2305.0	2450.3	2460.8	2436.4	2316.6	2041.0
20°	1789.8	1795.6	1843.3	1953.8	2127.0	2350.3	2580.6	2679.4	2652.7	2527.1	2194.5
22.5°	1821.2	1825.8	1857.2	1943.3	2103.8	2375.9	2701.5	2898.1	2883.0	2752.7	2356.1
25°	1986.3	2001.4	1982.8	1998.0	2114.2	2389.9	2799.2	3116.7	3120.2	2988.8	2523.6
27.5°	2321.3	2301.5	2257.3	2181.7	2195.7	2427.1	2883.0	3322.6	3352.8	3219.0	2672.5
30°	2662.0	2650.4	2623.6	2506.2	2408.5	2509.6	2953.9	3533.0	3580.7	3445.8	2805.0
32.5°	3044.6	3056.2	3008.6	2867.8	2701.5	2677.1	3027.2	3733.1	3822.6	3702.8	2960.9
35°	3501.6	3505.1	3410.9	3255.1	3066.7	2953.9	3158.6	3954.0	4119.2	4030.8	3169.0
37.5°	3947.1	3968.0	3916.8	3671.4	3504.0	3298.1	3376.0	4237.8	4470.4	4435.5	3430.7
40°	4341.3	4373.9	4357.6	4120.3	3900.5	3727.3	3713.3	4570.4	4894.9	4934.4	3776.1
42.5°	4655.3	4676.2	4689.0	4520.4	4326.2	4228.5	4129.6	4956.5	5396.1	5557.7	4199.4
45°	4986.7	4993.7	5020.5	4906.5	4736.7	4744.8	4621.6	5425.2	5924.1	6248.5	4685.5
47.5°	5408.9	5432.1	5419.4	5299.6	5146.1	5237.9	5129.8	5907.8	6445.1	6985.8	5183.3
50°	5922.9	5947.3	5935.7	5796.1	5625.2	5663.6	5596.1	6376.5	6947.5	7681.3	5597.3
52.5°	6188.1	6207.8	6352.0	6414.8	6325.3	6081.1	5993.9	6891.6	7371.9	8253.5	5977.6
55°	6060.1	6074.1	6388.1	6653.2	6981.2	6737.0	6393.9	7289.4	7746.4	8700.0	6260.2
57.5°	5529.8	5605.4	6032.2	6481.1	7170.8	7384.7	7042.8	7722.0	8106.9	9010.5	6538.1
60°	4442.5	4439.0	5050.7	5856.6	6800.9	7562.7	7959.2	8307.0	8468.6	9249.0	6910.3
62.5°	2455.0	2477.1	3291.2	4352.9	5772.9	7102.1	8646.5	9317.6	9293.1	9665.3	7492.9
65°	1222.3	1266.5	1708.4	2493.4	3841.2	5869.4	8765.2	10859.6	10789.9	10645.7	8696.6
67.5°	775.7	793.1	1037.4	1449.0	2135.2	3772.6	8026.7	12009.8	12171.4	11808.6	9890.9
70°	502.4	531.5	721.0	990.8	1288.6	1944.5	5879.9	11264.3	11635.3	11680.7	9146.6
72.5°	273.3	294.2	460.5	707.1	930.4	972.2	3302.8	8453.5	9050.1	9908.3	7155.6
75°	155.8	171.0	252.4	480.3	682.7	591.9	1464.2	5658.9	6039.2	7081.2	5127.5
77.5°	94.2	107.0	141.9	233.8	428.0	395.4	553.6	3444.7	3686.6	4225.0	2691.1
80°	43.0	51.2	89.5	129.1	233.8	187.2	211.7	1606.0	1658.4	1734.0	890.8
82.5°	19.8	23.3	40.7	76.8	132.6	108.2	81.4	371.0	522.2	494.3	226.8
85°	2.3	2.3	15.1	31.4	37.2	27.9	33.7	83.7	105.8	148.9	65.1
87.5°	0.0	0.0	1.2	1.2	2.3	3.5	7.0	10.5	15.1	24.4	16.3
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°	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1
2.5°	1436.2	1403.7	1374.6	1331.6	1302.5	1269.9	1247.8	1221.1	1210.6	1202.5	1190.9
5°	1468.8	1416.5	1345.5	1266.5	1201.3	1139.7	1082.7	1045.5	1012.9	1008.3	992.0
7.5°	1522.3	1444.4	1324.6	1195.5	1085.0	982.7	902.5	837.3	804.8	794.3	775.7
10°	1593.2	1486.3	1293.2	1095.5	936.2	814.1	723.4	650.1	598.9	580.3	566.4
12.5°	1672.3	1524.6	1243.2	972.2	790.8	651.3	536.1	458.2	425.6	414.0	403.5
15°	1763.0	1560.7	1164.1	849.0	648.9	479.1	397.7	364.0	350.0	346.6	343.1
17.5°	1850.3	1583.9	1069.9	721.0	498.9	372.1	333.8	321.0	317.5	314.0	311.7
20°	1949.1	1600.2	959.4	600.1	387.3	315.2	296.6	287.2	280.3	273.3	272.1
22.5°	2050.3	1600.2	839.7	481.5	324.5	282.6	261.7	244.2	231.4	224.4	222.1
25°	2146.8	1578.1	721.0	384.9	286.1	251.2	224.4	204.7	187.2	179.1	176.8
27.5°	2215.4	1521.1	617.5	325.6	259.3	223.3	190.7	168.6	154.7	146.5	145.4
30°	2258.5	1436.2	522.2	290.7	236.1	194.2	161.7	143.0	132.6	126.8	124.4
32.5°	2291.0	1331.6	437.3	266.3	214.0	168.6	140.7	125.6	116.3	111.6	110.5
35°	2356.1	1232.7	374.5	244.2	190.7	147.7	123.3	111.6	104.7	98.9	97.7
37.5°	2446.8	1150.2	324.5	224.4	168.6	131.4	111.6	101.2	95.4	89.5	88.4
40°	2580.6	1097.8	287.2	204.7	148.9	118.6	102.3	93.0	84.9	79.1	77.9
42.5°	2786.4	1073.4	262.8	184.9	131.4	107.0	94.2	82.6	74.4	68.6	67.5
45°	3031.8	1086.2	241.9	165.1	119.8	98.9	83.7	72.1	64.0	58.1	57.0
47.5°	3294.6	1131.6	224.4	146.5	108.2	90.7	74.4	61.6	54.7	48.8	47.7
50°	3569.1	1206.0	209.3	129.1	98.9	81.4	64.0	53.5	46.5	41.9	40.7
52.5°	3807.5	1307.2	194.2	116.3	90.7	72.1	55.8	46.5	39.5	34.9	33.7
55°	4035.4	1402.5	182.6	104.7	81.4	62.8	48.8	39.5	33.7	29.1	27.9
57.5°	4283.1	1503.7	168.6	94.2	73.3	55.8	43.0	33.7	29.1	24.4	23.3
60°	4643.7	1653.7	147.7	86.1	64.0	48.8	37.2	30.2	25.6	19.8	18.6
62.5°	5163.5	1927.0	124.4	74.4	54.7	41.9	31.4	25.6	20.9	16.3	14.0
65°	6135.7	2392.2	102.3	61.6	44.2	34.9	26.7	20.9	16.3	11.6	10.5
67.5°	6835.8	2513.1	82.6	50.0	36.1	26.7	22.1	16.3	11.6	8.1	7.0
70°	5976.4	1804.9	64.0	40.7	30.2	20.9	17.4	12.8	8.1	5.8	4.7
72.5°	4502.9	1179.2	47.7	31.4	23.3	17.4	12.8	10.5	7.0	4.7	3.5
75°	3173.7	681.5	34.9	23.3	16.3	12.8	10.5	8.1	5.8	3.5	3.5
77.5°	1627.0	281.4	24.4	16.3	11.6	8.1	7.0	4.7	4.7	3.5	2.3
80°	494.3	93.0	14.0	10.5	8.1	5.8	3.5	3.5	3.5	2.3	1.2
82.5°	112.8	30.2	8.1	8.1	5.8	4.7	3.5	1.2	1.2	0.0	0.0
85°	29.1	9.3	7.0	5.8	5.8	4.7	2.3	1.2	0.0	0.0	0.0
87.5°	10.5	5.8	5.8	5.8	4.7	3.5	2.3	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)