

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: P632812

Luminaire Tested: GWS-SA2D-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632812
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-SA2D-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9199.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

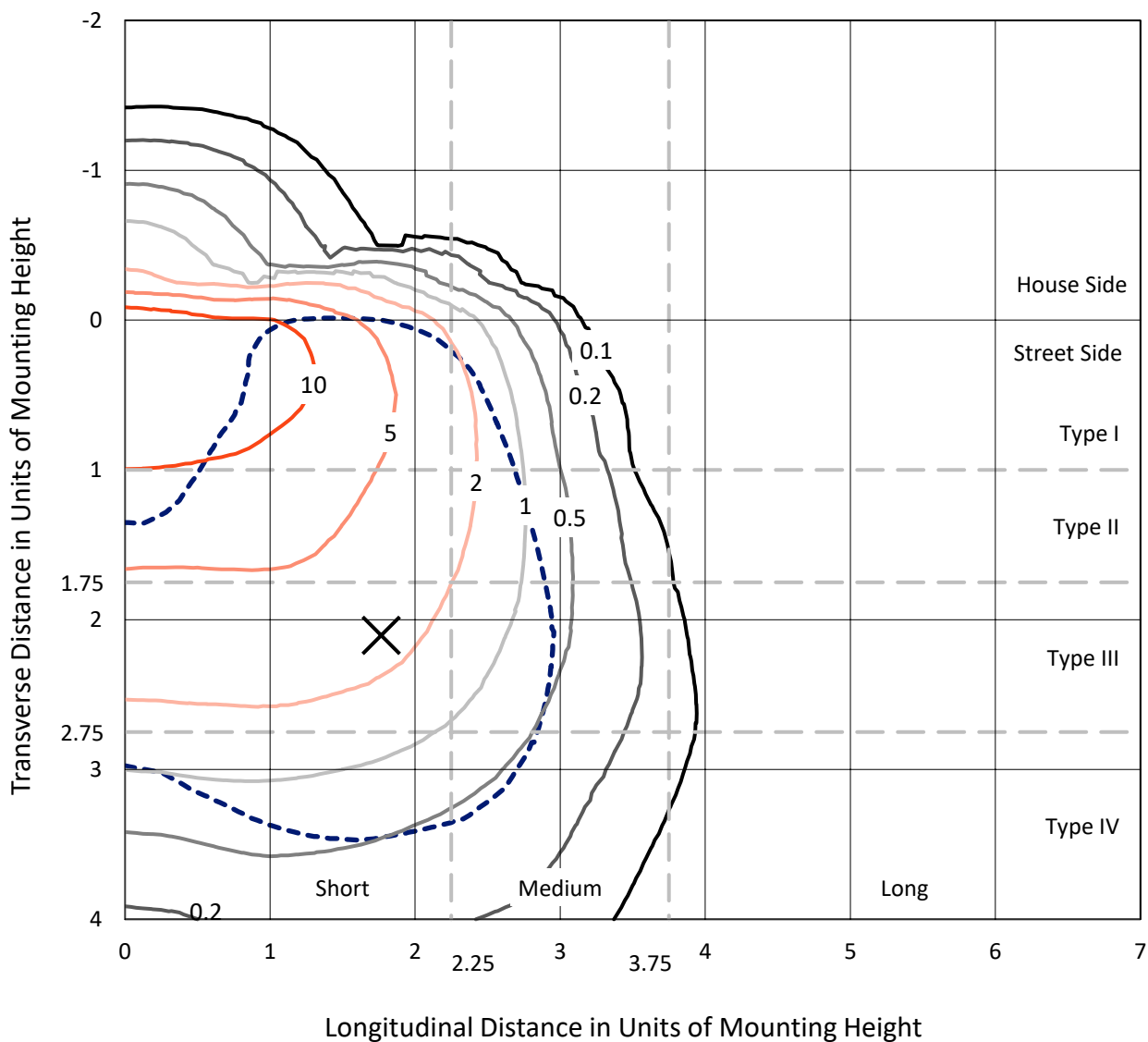
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

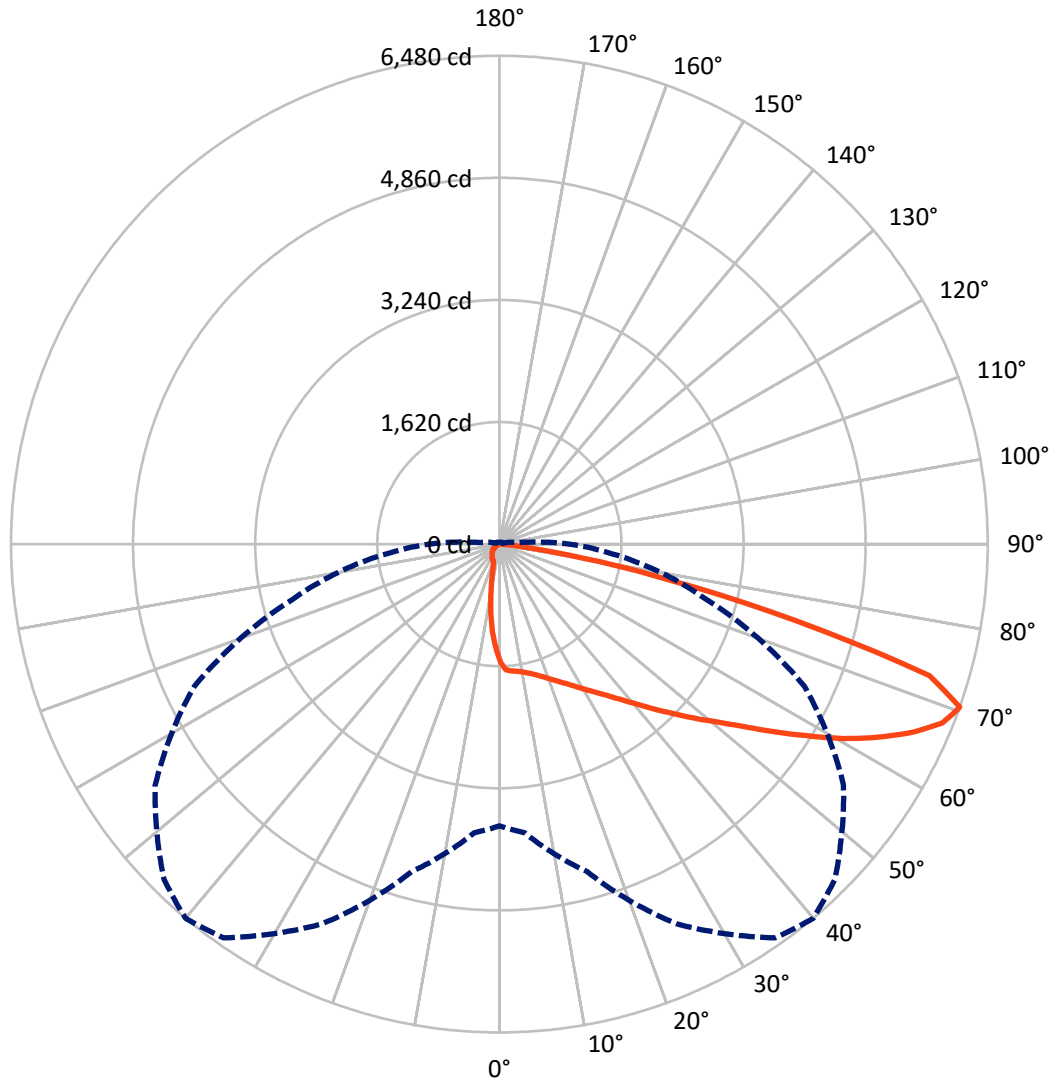
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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
House Side	Lumens	752.3	0.0	752.3
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	8447.5	0.0	8447.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	9199.8	0.0	9199.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.4
10°-20°	334.6	3.6
20°-30°	560.1	6.1
30°-40°	879.7	9.6
40°-50°	1391.4	15.1
50°-60°	2029.7	22.1
60°-70°	2516.2	27.4
70°-80°	1273.0	13.8
80°-90°	83.1	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°	9199.8	100.0
0°-180°	9199.8	100.0

Coefficient of Utilization



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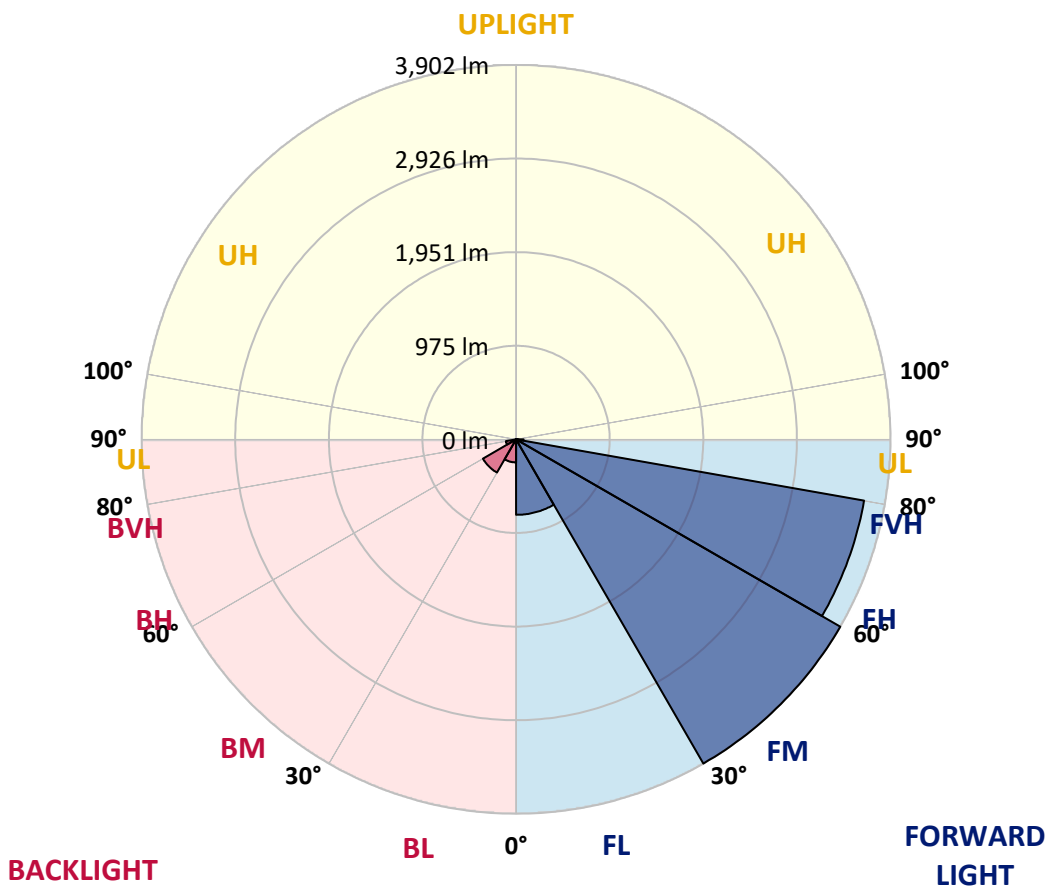
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.4	8.5			
FM (30°-60°)	3901.5	42.4			
FH (60°-80°)	3681.9	40.0			G2/5000
FVH (80°-90°)	77.6	0.8			G1/100
BL (0°-30°)	240.2	2.6	B1/500		
BM (30°-60°)	399.3	4.3	B1/1000		
BH (60°-80°)	107.3	1.2	B0/110		G0/110
BVH (80°-90°)	5.5	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°	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1
2.5°	1678.3	1684.1	1683.3	1685.8	1680.0	1670.7	1669.1	1656.5	1633.9	1605.5	1573.7
5°	1712.6	1719.3	1714.3	1711.8	1700.9	1690.8	1688.3	1674.9	1649.0	1610.5	1555.2
7.5°	1741.9	1743.6	1740.2	1734.4	1718.5	1705.1	1695.9	1677.4	1646.5	1608.0	1544.4
10°	1746.9	1746.1	1747.8	1748.6	1738.6	1726.8	1719.3	1694.2	1654.8	1613.8	1545.2
12.5°	1741.1	1741.1	1751.9	1764.5	1764.5	1758.6	1751.1	1728.5	1682.5	1633.9	1561.9
15°	1748.6	1751.1	1772.0	1795.5	1803.0	1797.1	1793.8	1770.4	1722.6	1669.1	1592.1
17.5°	1775.4	1777.9	1811.4	1846.5	1855.7	1849.0	1842.3	1818.9	1767.8	1709.3	1626.4
20°	1814.7	1821.4	1864.1	1909.3	1917.7	1909.3	1895.9	1863.3	1812.2	1752.8	1659.0
22.5°	1886.7	1890.9	1936.9	1984.6	1988.8	1975.4	1955.3	1910.1	1856.6	1798.8	1695.9
25°	1982.1	1988.0	2034.0	2080.1	2069.2	2049.1	2021.5	1970.4	1909.3	1853.2	1742.7
27.5°	2096.0	2102.7	2147.9	2188.0	2159.6	2136.1	2105.2	2041.6	1979.6	1928.6	1803.0
30°	2219.0	2224.9	2265.1	2301.0	2263.4	2235.8	2198.9	2133.6	2070.9	2032.4	1888.4
32.5°	2337.9	2337.0	2375.5	2404.8	2366.3	2344.6	2311.1	2245.0	2194.7	2178.0	2015.6
35°	2448.4	2448.4	2480.2	2509.5	2481.8	2470.1	2439.2	2386.4	2358.0	2378.1	2185.5
37.5°	2559.7	2553.8	2584.0	2616.6	2614.1	2614.9	2597.4	2572.3	2573.9	2645.1	2419.1
40°	2651.8	2649.3	2684.4	2727.1	2760.6	2787.4	2776.5	2785.7	2838.4	2971.5	2717.9
42.5°	2725.4	2731.3	2776.5	2844.3	2928.8	2983.2	2990.8	3028.4	3164.0	3370.0	3055.2
45°	2810.0	2810.8	2873.6	2977.4	3112.1	3198.4	3228.5	3325.6	3518.1	3783.5	3425.2
47.5°	2913.8	2903.7	2974.0	3119.7	3314.7	3441.9	3495.5	3616.9	3914.9	4186.9	3726.5
50°	3028.4	3010.0	3089.5	3287.9	3541.6	3700.6	3809.4	3986.9	4308.3	4518.4	3950.9
52.5°	3161.5	3144.0	3234.4	3481.3	3813.6	4007.0	4146.7	4325.9	4645.6	4771.2	4084.8
55°	3330.6	3313.0	3408.5	3713.1	4135.0	4386.1	4532.6	4683.3	4959.5	4957.8	4181.9
57.5°	3518.1	3493.8	3626.1	4006.1	4536.0	4797.1	4946.1	5019.8	5198.1	5102.6	4247.2
60°	3733.2	3711.5	3894.8	4355.2	4998.9	5240.8	5334.5	5304.4	5393.9	5188.0	4224.6
62.5°	3927.4	3917.4	4145.1	4725.1	5440.0	5644.2	5670.2	5538.8	5537.9	5189.7	4072.2
65°	4129.2	4148.4	4486.6	5151.2	5883.6	6020.9	5976.5	5771.5	5595.7	4984.6	3621.9
67.5°	4204.5	4260.6	4711.7	5536.2	6233.5	6340.6	6262.8	5887.8	5355.4	4294.9	2758.1
70°	3739.1	3844.6	4499.1	5558.0	6378.3	6480.4	6293.8	5574.7	4464.8	2845.1	1510.9
72.5°	2843.5	2966.5	3749.1	4551.0	5736.3	5969.0	5650.1	4541.8	2877.8	1246.4	507.3
75°	1591.2	1724.3	2792.4	3426.9	3851.3	4063.9	3946.7	2913.8	1274.8	325.6	151.5
77.5°	538.2	582.6	1299.1	2120.2	2542.1	2351.3	1990.5	1447.3	468.7	123.9	80.4
80°	318.9	335.7	483.8	1055.5	1337.6	1109.1	875.6	534.9	238.6	66.1	56.1
82.5°	95.4	113.0	267.0	391.7	524.0	326.4	276.2	305.5	123.9	36.0	46.9
85°	0.0	0.0	56.9	121.4	137.3	53.6	53.6	173.3	22.6	15.1	34.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.2	2.5	3.3	7.5
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°	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1
2.5°	1551.1	1521.8	1487.4	1454.8	1423.8	1383.6	1364.4	1341.0	1320.9	1310.0	1315.8
5°	1520.1	1474.0	1403.7	1332.6	1260.6	1192.8	1131.7	1090.7	1053.8	1034.6	1038.8
7.5°	1493.3	1431.4	1321.7	1205.4	1089.8	973.5	878.9	805.2	748.3	724.9	720.7
10°	1481.6	1403.7	1248.9	1081.5	904.0	747.5	613.6	532.4	474.6	446.1	451.2
12.5°	1487.4	1389.5	1186.9	960.1	729.9	547.4	419.4	343.2	302.2	285.4	281.2
15°	1504.2	1386.2	1131.7	836.2	563.3	382.5	289.6	258.6	250.3	248.6	248.6
17.5°	1523.4	1387.0	1074.8	710.7	427.7	283.8	247.8	241.9	239.4	237.7	238.6
20°	1542.7	1387.0	1009.5	583.4	321.4	245.3	236.0	231.9	229.4	228.5	228.5
22.5°	1566.1	1387.0	936.7	465.4	257.8	232.7	225.2	222.7	220.1	219.3	218.5
25°	1594.6	1387.8	856.3	364.1	234.4	221.8	216.0	213.4	210.9	209.3	209.3
27.5°	1635.6	1394.5	767.6	283.8	221.0	211.8	206.8	204.2	201.7	199.2	199.2
30°	1695.0	1411.3	668.0	234.4	208.4	200.9	195.9	194.2	191.7	189.2	188.3
32.5°	1783.8	1440.6	565.0	210.1	196.7	189.2	183.3	181.6	179.1	176.6	175.8
35°	1907.6	1494.1	464.6	195.0	181.6	174.1	170.8	169.9	166.6	164.1	164.1
37.5°	2089.3	1581.2	368.3	180.0	169.1	163.2	159.0	157.4	154.0	151.5	150.7
40°	2311.1	1694.2	286.3	168.2	157.4	151.5	147.3	144.8	140.6	137.3	135.6
42.5°	2594.0	1832.3	226.0	155.7	146.5	140.6	137.3	132.3	126.4	121.4	120.5
45°	2888.7	1974.6	186.7	144.0	136.4	131.4	127.2	120.5	112.2	106.3	104.6
47.5°	3114.7	2063.3	163.2	131.4	125.6	121.4	116.3	108.0	97.9	91.2	89.6
50°	3276.2	2076.7	145.6	119.7	116.3	112.2	104.6	94.6	83.7	77.0	75.3
52.5°	3355.7	2016.5	131.4	108.8	106.3	102.1	92.9	82.0	70.3	63.6	61.9
55°	3391.7	1902.6	118.0	99.6	96.3	91.2	81.2	69.5	57.8	51.9	50.2
57.5°	3377.5	1734.4	106.3	90.4	86.2	80.4	69.5	56.9	47.7	41.9	41.0
60°	3272.0	1498.3	94.6	81.2	76.2	69.5	58.6	46.9	38.5	34.3	33.5
62.5°	3044.3	1205.4	82.9	70.3	67.0	60.3	50.2	38.5	31.8	29.3	28.5
65°	2578.1	852.1	71.1	59.4	57.8	51.1	41.9	31.8	27.6	25.9	25.1
67.5°	1853.2	518.1	60.3	51.1	49.4	43.5	35.2	27.6	25.1	24.3	24.3
70°	931.6	245.3	47.7	41.9	41.9	36.0	30.1	25.1	24.3	23.4	23.4
72.5°	316.4	104.6	36.0	32.6	34.3	31.0	25.9	23.4	23.4	23.4	23.4
75°	108.0	55.2	25.1	23.4	25.1	25.1	22.6	22.6	23.4	23.4	23.4
77.5°	70.3	36.8	17.6	15.9	19.3	19.3	19.3	20.9	22.6	22.6	22.6
80°	57.8	20.1	11.7	10.9	14.2	14.2	15.9	19.3	20.9	20.9	20.9
82.5°	49.4	12.6	6.7	7.5	10.0	10.9	13.4	15.9	18.4	19.3	19.3
85°	33.5	6.7	5.0	5.9	6.7	8.4	10.9	13.4	15.1	16.7	16.7
87.5°	9.2	2.5	3.3	4.2	4.2	5.9	8.4	10.0	11.7	12.6	12.6
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)