

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: P632922

Luminaire Tested: GWS-SA2D-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632922
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9281.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

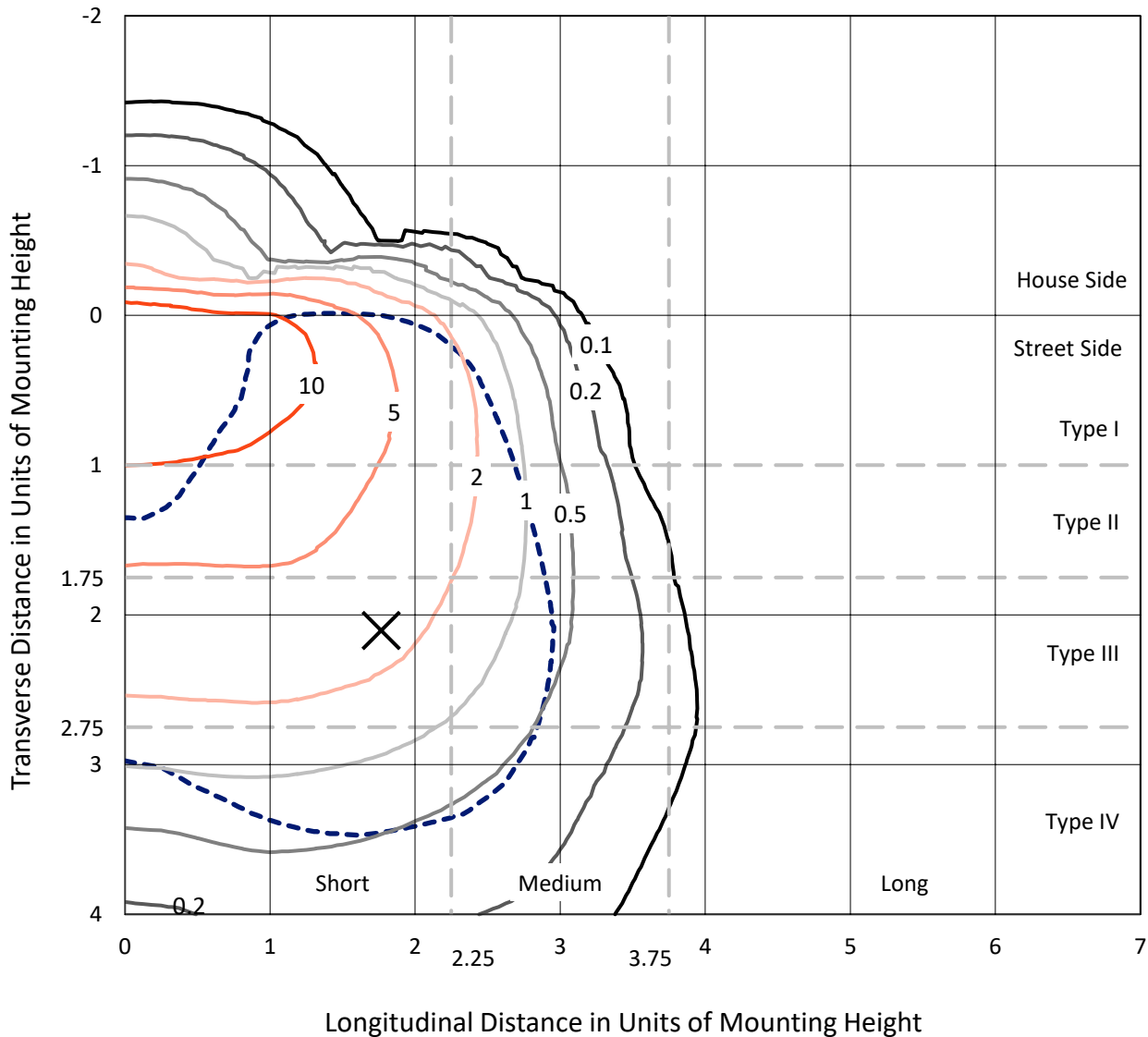
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

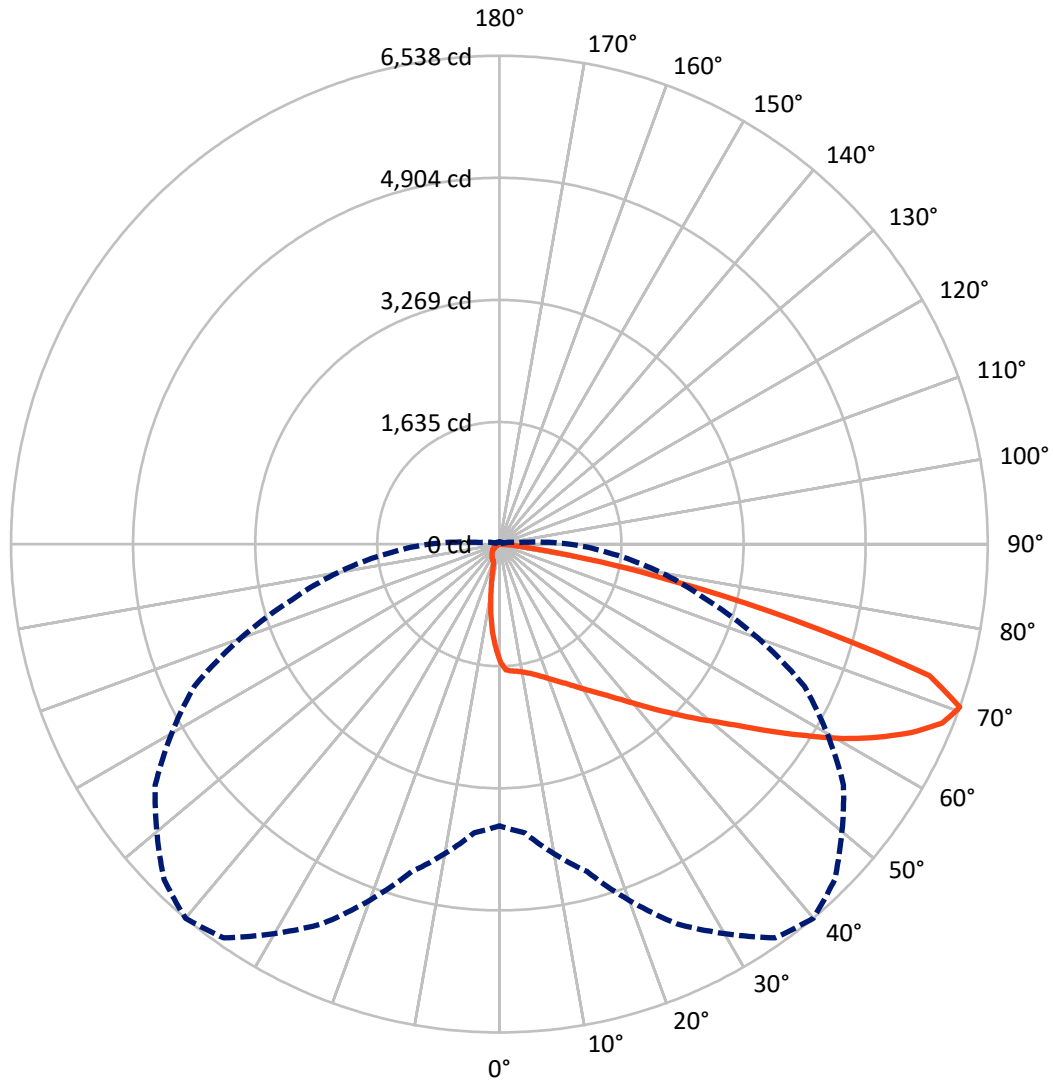
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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	759.0	0.0	759.0
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	8522.6	0.0	8522.6
	% Fixture	91.8	0.0	91.8
Total	Lumens	9281.6	0.0	9281.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.4
10°-20°	337.6	3.6
20°-30°	565.1	6.1
30°-40°	887.5	9.6
40°-50°	1403.8	15.1
50°-60°	2047.8	22.1
60°-70°	2538.5	27.4
70°-80°	1284.3	13.8
80°-90°	83.8	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°	9281.6	100.0
0°-180°	9281.6	100.0

Coefficient of Utilization



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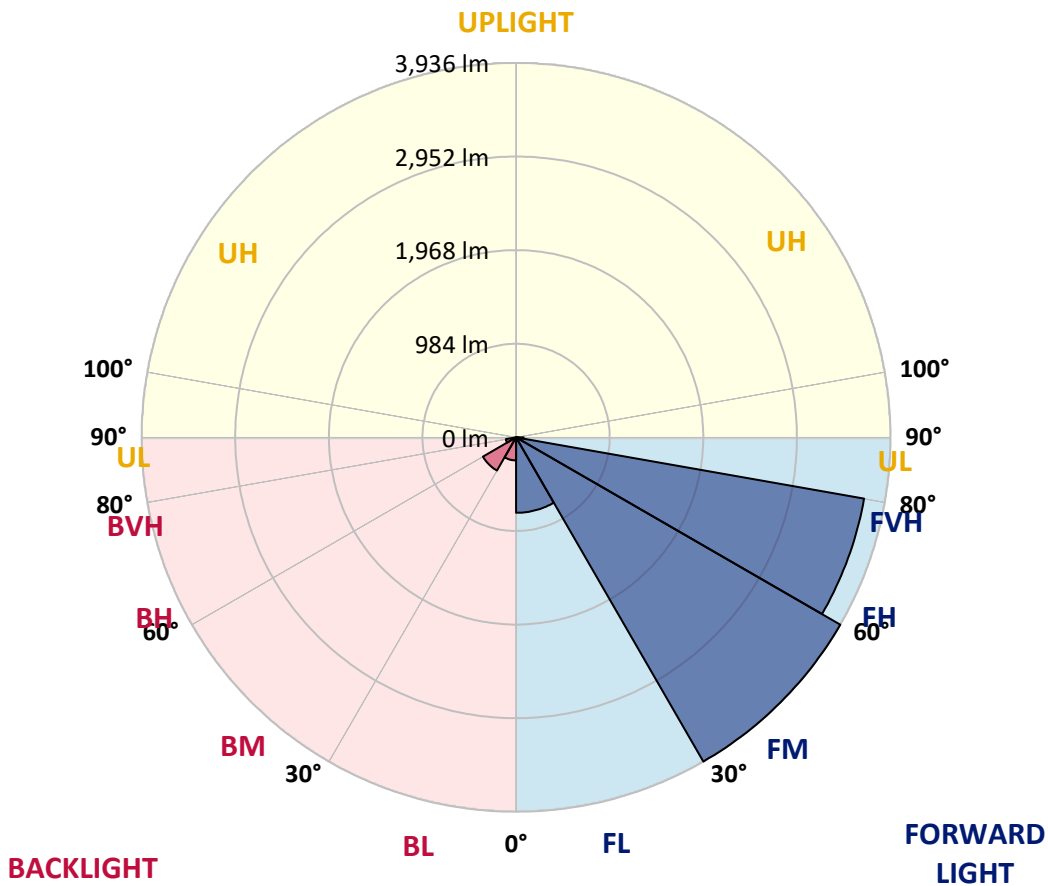
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.4	8.5			
FM (30°-60°)	3936.2	42.4			
FH (60°-80°)	3714.7	40.0			G2/5000
FVH (80°-90°)	78.3	0.8			G1/100
BL (0°-30°)	242.4	2.6	B1/500		
BM (30°-60°)	402.9	4.3	B1/1000		
BH (60°-80°)	108.2	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°	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0
2.5°	1693.2	1699.1	1698.3	1700.8	1694.9	1685.6	1683.9	1671.2	1648.4	1619.7	1587.6
5°	1727.8	1734.6	1729.5	1727.0	1716.0	1705.9	1703.3	1689.8	1663.6	1624.8	1569.1
7.5°	1757.4	1759.1	1755.7	1749.8	1733.7	1720.2	1710.9	1692.4	1661.1	1622.3	1558.1
10°	1762.5	1761.6	1763.3	1764.1	1754.0	1742.2	1734.6	1709.3	1669.6	1628.2	1558.9
12.5°	1756.5	1756.5	1767.5	1780.2	1780.2	1774.3	1766.7	1743.9	1697.4	1648.4	1575.8
15°	1764.1	1766.7	1787.8	1811.4	1819.0	1813.1	1809.7	1786.1	1738.0	1683.9	1606.2
17.5°	1791.2	1793.7	1827.5	1862.9	1872.2	1865.5	1858.7	1835.1	1783.6	1724.5	1640.8
20°	1830.9	1837.6	1880.7	1926.3	1934.7	1926.3	1912.8	1879.8	1828.3	1768.4	1673.8
22.5°	1903.5	1907.7	1954.2	2002.3	2006.5	1993.0	1972.7	1927.1	1873.1	1814.8	1710.9
25°	1999.8	2005.7	2052.1	2098.6	2087.6	2067.3	2039.4	1987.9	1926.3	1869.7	1758.2
27.5°	2114.6	2121.4	2167.0	2207.5	2178.8	2155.1	2123.9	2059.7	1997.2	1945.7	1819.0
30°	2238.7	2244.7	2285.2	2321.5	2283.5	2255.6	2218.5	2152.6	2089.3	2050.4	1905.2
32.5°	2358.7	2357.8	2396.7	2426.2	2387.4	2365.4	2331.6	2264.9	2214.3	2197.4	2033.5
35°	2470.1	2470.1	2502.2	2531.8	2503.9	2492.1	2460.8	2407.6	2378.9	2399.2	2205.0
37.5°	2582.5	2576.5	2606.9	2639.9	2637.3	2638.2	2620.5	2595.1	2596.8	2668.6	2440.6
40°	2675.3	2672.8	2708.3	2751.4	2785.1	2812.2	2801.2	2810.5	2863.7	2997.9	2742.1
42.5°	2749.7	2755.6	2801.2	2869.6	2954.9	3009.8	3017.4	3055.4	3192.2	3399.9	3082.4
45°	2835.0	2835.8	2899.1	3003.9	3139.8	3226.8	3257.2	3355.2	3549.4	3817.1	3455.7
47.5°	2939.7	2929.5	3000.5	3147.4	3344.2	3472.5	3526.6	3649.0	3949.7	4224.1	3759.7
50°	3055.4	3036.8	3117.0	3317.2	3573.0	3733.5	3843.3	4022.3	4346.6	4558.6	3986.0
52.5°	3189.6	3171.9	3263.1	3512.2	3847.5	4042.6	4183.6	4364.3	4686.9	4813.6	4121.1
55°	3360.2	3342.5	3438.8	3746.2	4171.8	4425.1	4572.9	4724.9	5003.6	5001.9	4219.1
57.5°	3549.4	3524.9	3658.3	4041.7	4576.3	4839.8	4990.1	5064.4	5244.3	5148.0	4284.9
60°	3766.4	3744.5	3929.4	4393.9	5043.3	5287.4	5381.9	5351.5	5441.9	5234.2	4262.1
62.5°	3962.4	3952.2	4181.9	4767.2	5488.3	5694.4	5720.6	5588.0	5587.2	5235.8	4108.5
65°	4165.9	4185.3	4526.5	5197.0	5935.9	6074.4	6029.7	5822.8	5645.4	5028.9	3654.1
67.5°	4241.9	4298.5	4753.6	5585.5	6288.9	6397.0	6318.5	5940.2	5403.1	4333.1	2782.6
70°	3772.3	3878.7	4539.1	5607.4	6435.0	6538.1	6349.7	5624.3	4504.5	2870.4	1524.3
72.5°	2868.7	2992.9	3782.5	4591.5	5787.3	6022.1	5700.3	4582.2	2903.4	1257.4	511.8
75°	1605.4	1739.7	2817.2	3457.3	3885.5	4100.0	3981.8	2939.7	1286.2	328.5	152.9
77.5°	543.0	587.8	1310.7	2139.1	2564.7	2372.2	2008.2	1460.1	472.9	125.0	81.1
80°	321.8	338.6	488.1	1064.9	1349.5	1119.0	883.3	539.6	240.7	66.7	56.6
82.5°	96.3	114.0	269.4	395.2	528.7	329.4	278.7	308.2	125.0	36.3	47.3
85°	0.0	0.0	57.4	122.5	138.5	54.0	54.0	174.8	22.8	15.2	34.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.2	2.5	3.4	7.6
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°	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0
2.5°	1564.8	1535.3	1500.7	1467.7	1436.5	1395.9	1376.5	1352.9	1332.6	1321.6	1327.5
5°	1533.6	1487.1	1416.2	1344.4	1271.8	1203.4	1141.8	1100.4	1063.2	1043.8	1048.0
7.5°	1506.6	1444.1	1333.5	1216.1	1099.5	982.1	886.7	812.4	755.0	731.3	727.1
10°	1494.7	1416.2	1260.0	1091.1	912.1	754.1	619.0	537.1	478.8	450.1	455.2
12.5°	1500.7	1401.9	1197.5	968.6	736.4	552.3	423.1	346.2	304.9	288.0	283.7
15°	1517.6	1398.5	1141.8	843.6	568.3	385.9	292.2	260.9	252.5	250.8	250.8
17.5°	1537.0	1399.3	1084.3	717.0	431.5	286.3	250.0	244.1	241.5	239.8	240.7
20°	1556.4	1399.3	1018.5	588.6	324.3	247.4	238.1	233.9	231.4	230.5	230.5
22.5°	1580.0	1399.3	945.0	469.5	260.1	234.8	227.2	224.6	222.1	221.3	220.4
25°	1608.8	1400.2	863.9	367.4	236.5	223.8	217.9	215.3	212.8	211.1	211.1
27.5°	1650.1	1406.9	774.4	286.3	222.9	213.7	208.6	206.1	203.5	201.0	201.0
30°	1710.1	1423.8	673.9	236.5	210.3	202.7	197.6	195.9	193.4	190.9	190.0
32.5°	1799.6	1453.4	570.0	212.0	198.5	190.9	184.9	183.3	180.7	178.2	177.3
35°	1924.6	1507.4	468.7	196.8	183.3	175.7	172.3	171.4	168.1	165.5	165.5
37.5°	2107.9	1595.2	371.6	181.6	170.6	164.7	160.5	158.8	155.4	152.9	152.0
40°	2331.6	1709.3	288.8	169.7	158.8	152.9	148.6	146.1	141.9	138.5	136.8
42.5°	2617.1	1848.6	228.0	157.1	147.8	141.9	138.5	133.4	127.5	122.5	121.6
45°	2914.3	1992.2	188.3	145.3	137.7	132.6	128.4	121.6	113.2	107.3	105.6
47.5°	3142.4	2081.7	164.7	132.6	126.7	122.5	117.4	108.9	98.8	92.0	90.4
50°	3305.3	2095.2	146.9	120.8	117.4	113.2	105.6	95.4	84.4	77.7	76.0
52.5°	3385.6	2034.4	132.6	109.8	107.3	103.0	93.7	82.8	70.9	64.2	62.5
55°	3421.9	1919.5	119.1	100.5	97.1	92.0	81.9	70.1	58.3	52.4	50.7
57.5°	3407.5	1749.8	107.3	91.2	87.0	81.1	70.1	57.4	48.1	42.2	41.4
60°	3301.1	1511.6	95.4	81.9	76.8	70.1	59.1	47.3	38.8	34.6	33.8
62.5°	3071.4	1216.1	83.6	70.9	67.6	60.8	50.7	38.8	32.1	29.6	28.7
65°	2601.0	859.7	71.8	60.0	58.3	51.5	42.2	32.1	27.9	26.2	25.3
67.5°	1869.7	522.7	60.8	51.5	49.8	43.9	35.5	27.9	25.3	24.5	24.5
70°	939.9	247.4	48.1	42.2	42.2	36.3	30.4	25.3	24.5	23.6	23.6
72.5°	319.2	105.6	36.3	32.9	34.6	31.2	26.2	23.6	23.6	23.6	23.6
75°	108.9	55.7	25.3	23.6	25.3	25.3	22.8	22.8	23.6	23.6	23.6
77.5°	70.9	37.2	17.7	16.0	19.4	19.4	19.4	21.1	22.8	22.8	22.8
80°	58.3	20.3	11.8	11.0	14.4	14.4	16.0	19.4	21.1	21.1	21.1
82.5°	49.8	12.7	6.8	7.6	10.1	11.0	13.5	16.0	18.6	19.4	19.4
85°	33.8	6.8	5.1	5.9	6.8	8.4	11.0	13.5	15.2	16.9	16.9
87.5°	9.3	2.5	3.4	4.2	4.2	5.9	8.4	10.1	11.8	12.7	12.7
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)