

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: P639181

Luminaire Tested: GWS-SA5B-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11350.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

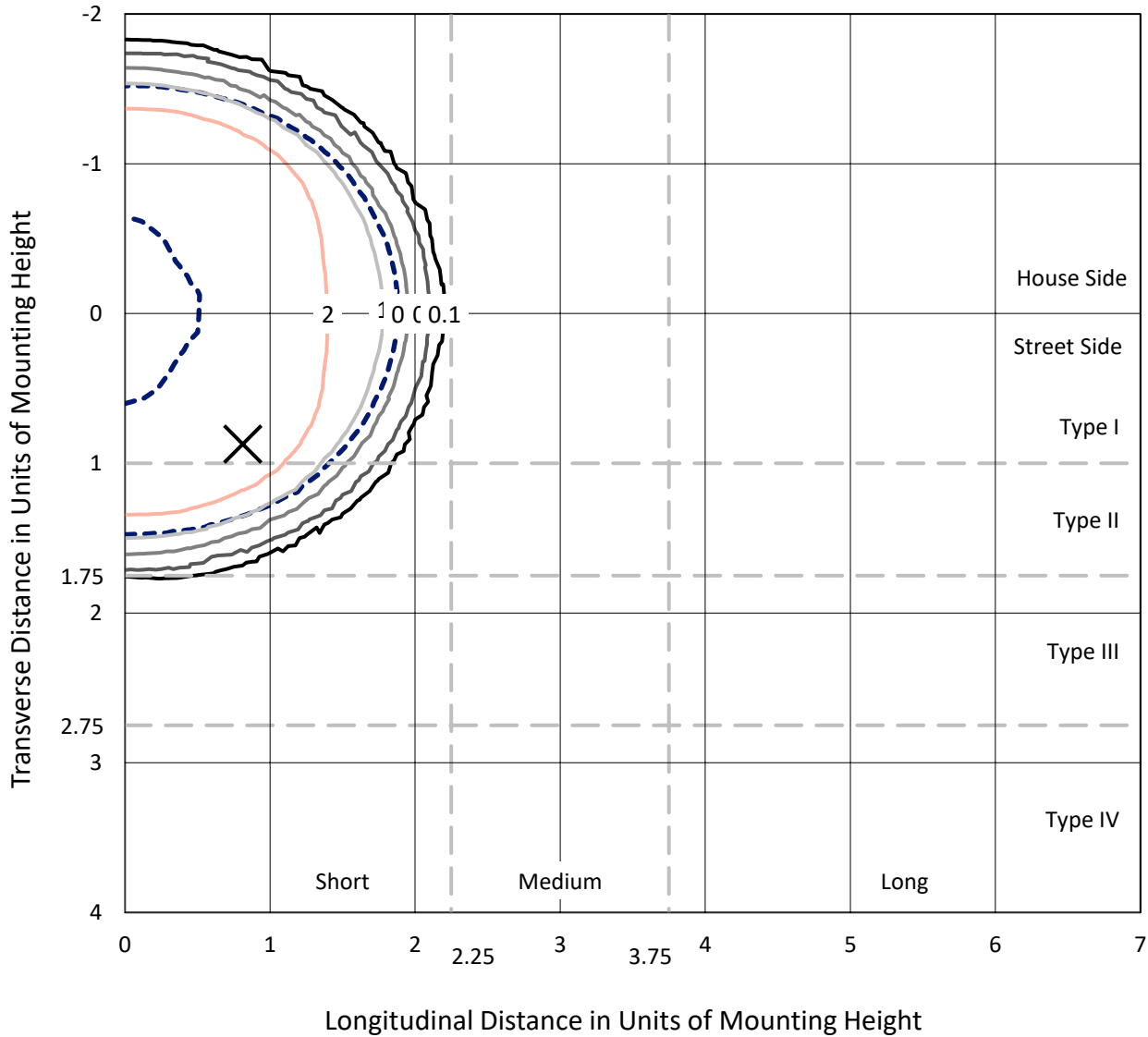
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639181
 CATALOG NUMBER: GWS-SA5B-735-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

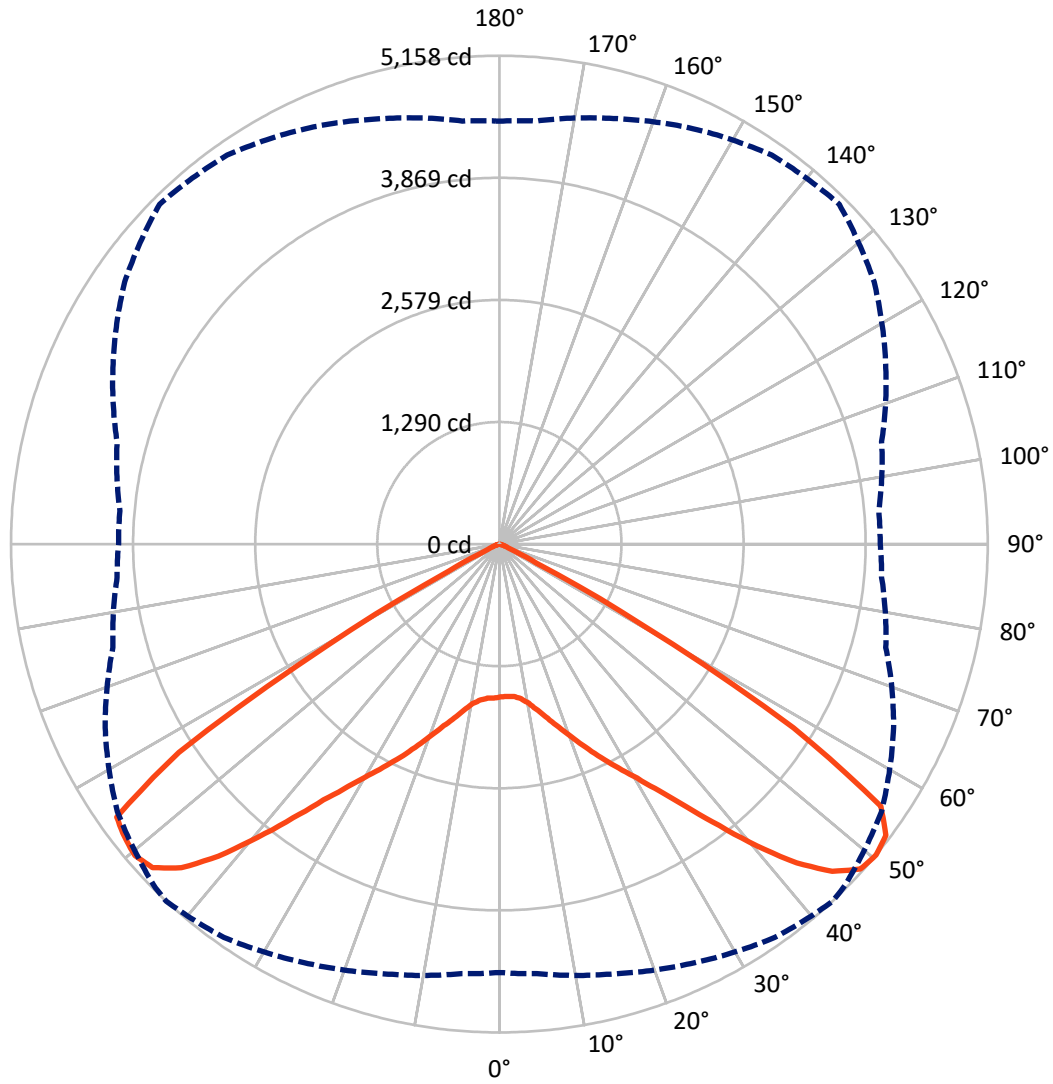
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P639181
CATALOG NUMBER: GWS-SA5B-735-U-RW-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5675.0	0.0	5675.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5675.3	0.0	5675.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	11350.2	0.0	11350.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	1.4
10°-20°	547.1	4.8
20°-30°	1106.9	9.8
30°-40°	2053.6	18.1
40°-50°	3408.9	30.0
50°-60°	3478.9	30.7
60°-70°	570.5	5.0
70°-80°	25.0	0.2
80°-90°	0.4	0.0
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°	11350.2	100.0
0°-180°	11350.2	100.0

Coefficient of Utilization



REPORT NUMBER: P639181

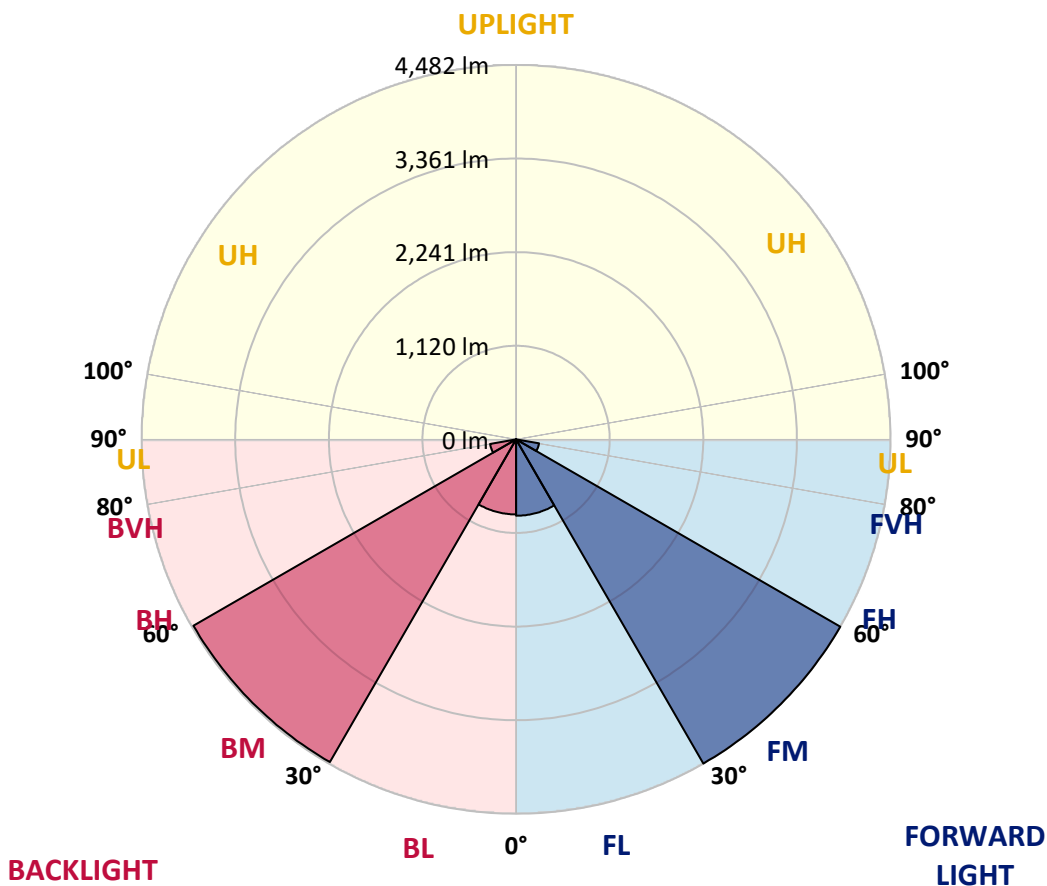
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.4	8.1			
FM (30°-60°)	4481.6	39.5			
FH (60°-80°)	279.1	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	898.5	7.9	B2/1000		
BM (30°-60°)	4459.8	39.3	B3/5000		
BH (60°-80°)	316.4	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





REPORT NUMBER: P639181

CATALOG NUMBER: GWS-SA5B-735-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1584.3	1588.0	1593.0	1598.1	1604.3	1610.6	1614.4	1625.7	1623.2	1633.2	1633.2
5°	1566.7	1570.4	1576.7	1588.0	1601.8	1615.6	1625.7	1648.3	1660.8	1680.9	1688.5
7.5°	1575.5	1580.5	1588.0	1605.6	1626.9	1648.3	1659.6	1696.0	1721.1	1758.8	1780.1
10°	1604.3	1609.4	1621.9	1652.0	1679.7	1709.8	1723.6	1770.1	1810.2	1861.7	1891.8
12.5°	1637.0	1643.3	1668.4	1713.6	1761.3	1801.4	1820.3	1871.7	1913.2	1970.9	2018.6
15°	1670.9	1680.9	1719.8	1786.4	1854.2	1908.1	1928.2	1983.5	2024.9	2086.4	2140.4
17.5°	1750.0	1761.3	1805.2	1876.8	1969.7	2032.4	2050.0	2107.7	2139.1	2180.6	2237.0
20°	1849.1	1870.5	1924.5	2011.1	2112.8	2173.0	2185.6	2242.1	2239.6	2257.1	2306.1
22.5°	1972.2	1987.2	2046.2	2149.2	2263.4	2329.9	2358.8	2382.7	2351.3	2336.2	2367.6
25°	2100.2	2117.8	2181.8	2294.8	2422.8	2499.4	2523.3	2542.1	2491.9	2435.4	2439.2
27.5°	2265.9	2278.5	2341.2	2461.8	2589.8	2676.4	2697.8	2730.4	2663.9	2573.5	2548.4
30°	2463.0	2475.6	2542.1	2668.9	2795.7	2869.7	2902.4	2942.6	2869.7	2756.8	2727.9
32.5°	2694.0	2706.5	2791.9	2922.5	3026.7	3107.0	3138.4	3181.1	3123.3	2996.5	2963.9
35°	2970.2	2977.7	3078.1	3220.0	3330.5	3408.3	3429.6	3479.8	3415.8	3289.0	3271.5
37.5°	3290.3	3299.1	3408.3	3572.7	3685.7	3772.3	3806.2	3820.0	3742.2	3600.4	3586.5
40°	3641.8	3670.7	3777.4	3954.4	4081.2	4190.4	4220.5	4174.1	4064.8	3871.5	3846.4
42.5°	4008.3	4033.5	4152.7	4344.8	4491.7	4603.4	4604.6	4504.2	4318.4	4051.0	4013.4
45°	4313.4	4323.4	4477.9	4671.2	4851.9	4931.0	4938.6	4756.5	4476.6	4155.2	4074.9
47.5°	4523.0	4539.4	4673.7	4859.5	5059.1	5130.6	5115.6	4888.4	4551.9	4223.0	4089.9
50°	4525.6	4553.2	4698.8	4878.3	5071.6	5158.3	5136.9	4926.0	4594.6	4225.5	4053.5
52.5°	4125.1	4170.3	4407.6	4667.4	4963.7	5111.8	5116.8	4975.0	4578.3	4185.4	4020.9
55°	3112.0	3161.0	3459.8	3902.9	4475.3	4888.4	4959.9	4917.2	4559.4	4202.9	4078.6
57.5°	1647.0	1609.4	1775.1	2214.4	2933.8	3664.4	3874.0	4215.5	4349.8	4224.3	4185.4
60°	359.0	382.9	509.7	686.7	1144.9	1723.6	1928.2	2513.2	3208.7	3517.5	3741.0
62.5°	154.4	151.9	158.2	179.5	262.4	436.9	533.5	871.2	1374.6	1888.1	2235.8
65°	126.8	128.0	133.1	133.1	124.3	125.5	131.8	199.6	321.4	450.7	605.1
67.5°	95.4	96.7	105.4	108.0	101.7	90.4	89.1	75.3	79.1	99.2	102.9
70°	60.3	60.3	65.3	67.8	67.8	62.8	61.5	54.0	52.7	60.3	67.8
72.5°	32.6	32.6	35.1	36.4	35.1	33.9	33.9	32.6	31.4	36.4	46.4
75°	13.8	13.8	15.1	15.1	13.8	13.8	13.8	13.8	13.8	16.3	25.1
77.5°	2.5	3.8	5.0	3.8	2.5	2.5	2.5	3.8	3.8	5.0	7.5
80°	1.3	1.3	2.5	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P639181

CATALOG NUMBER: GWS-SA5B-735-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1642.0	1628.2	1633.2	1635.7	1632.0	1629.5	1615.6	1611.9	1605.6	1595.6	1593.0
5°	1697.2	1685.9	1684.7	1677.2	1659.6	1638.2	1611.9	1600.6	1588.0	1575.5	1573.0
7.5°	1790.1	1776.3	1767.5	1742.4	1702.3	1668.4	1624.4	1600.6	1584.3	1567.9	1564.2
10°	1909.4	1893.1	1868.0	1821.5	1767.5	1718.6	1667.1	1635.7	1610.6	1588.0	1586.8
12.5°	2036.2	2018.6	1973.4	1914.4	1849.1	1803.9	1738.7	1694.7	1657.1	1623.2	1619.4
15°	2169.3	2147.9	2086.4	2016.1	1955.8	1909.4	1837.8	1767.5	1709.8	1660.8	1655.8
17.5°	2270.9	2244.6	2171.8	2119.0	2070.1	2022.4	1942.0	1849.1	1772.6	1713.6	1699.8
20°	2335.0	2309.9	2240.8	2211.9	2189.3	2155.4	2060.0	1963.4	1878.0	1805.2	1792.6
22.5°	2396.5	2366.3	2306.1	2306.1	2323.7	2309.9	2206.9	2096.4	1996.0	1911.9	1893.1
25°	2465.5	2441.7	2399.0	2434.1	2478.1	2476.8	2371.4	2233.3	2117.8	2023.6	2004.8
27.5°	2565.9	2542.1	2527.0	2593.6	2648.8	2645.0	2529.5	2380.2	2258.4	2165.5	2147.9
30°	2743.0	2720.4	2704.0	2784.4	2854.7	2828.3	2701.5	2557.2	2434.1	2328.7	2316.1
32.5°	2979.0	2955.1	2933.8	3014.1	3076.9	3043.0	2922.5	2786.9	2645.0	2542.1	2517.0
35°	3289.0	3238.8	3217.5	3312.9	3339.2	3301.6	3186.1	3066.8	2916.2	2798.2	2781.9
37.5°	3609.1	3550.1	3535.1	3617.9	3660.6	3646.8	3511.2	3386.9	3223.8	3093.2	3074.4
40°	3882.8	3828.8	3802.5	3931.8	4028.4	4037.2	3915.5	3763.6	3571.5	3435.9	3402.0
42.5°	4043.5	3997.1	3990.8	4191.6	4349.8	4462.8	4317.2	4160.2	3958.1	3805.0	3777.4
45°	4079.9	4049.8	4102.5	4366.1	4612.2	4818.1	4693.8	4528.1	4309.6	4147.7	4121.3
47.5°	4076.1	4066.1	4160.2	4456.5	4767.8	5021.4	4959.9	4772.9	4562.0	4392.5	4367.4
50°	4022.2	4023.4	4180.3	4501.7	4830.6	5076.7	5015.1	4841.9	4653.6	4486.6	4466.6
52.5°	4000.8	3993.3	4142.7	4487.9	4894.6	5051.5	4913.5	4718.9	4509.2	4303.4	4273.2
55°	4076.1	4057.3	4147.7	4476.6	4902.2	5037.7	4673.7	4251.9	3822.6	3579.0	3558.9
57.5°	4189.1	4169.0	4211.7	4393.7	4509.2	4189.1	3439.7	2759.3	2317.4	2130.3	2048.7
60°	3741.0	3727.1	3694.5	3474.8	2980.2	2248.3	1531.5	976.7	701.7	567.4	567.4
62.5°	2321.2	2302.3	2125.3	1579.2	1147.4	664.1	365.3	228.5	173.2	161.9	160.7
65°	651.5	647.8	536.0	379.1	241.0	149.4	131.8	134.3	131.8	128.0	126.8
67.5°	97.9	108.0	108.0	87.9	84.1	94.2	110.5	118.0	111.7	105.4	102.9
70°	62.8	67.8	65.3	56.5	60.3	70.3	79.1	80.3	76.6	70.3	69.0
72.5°	43.9	49.0	40.2	36.4	37.7	41.4	45.2	45.2	43.9	41.4	38.9
75°	26.4	26.4	18.8	17.6	17.6	18.8	18.8	21.3	21.3	20.1	18.8
77.5°	8.8	10.0	6.3	5.0	5.0	5.0	6.3	7.5	7.5	6.3	5.0
80°	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	1.3
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)