

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: P639326

Luminaire Tested: GWS-SA5B-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15923.9 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

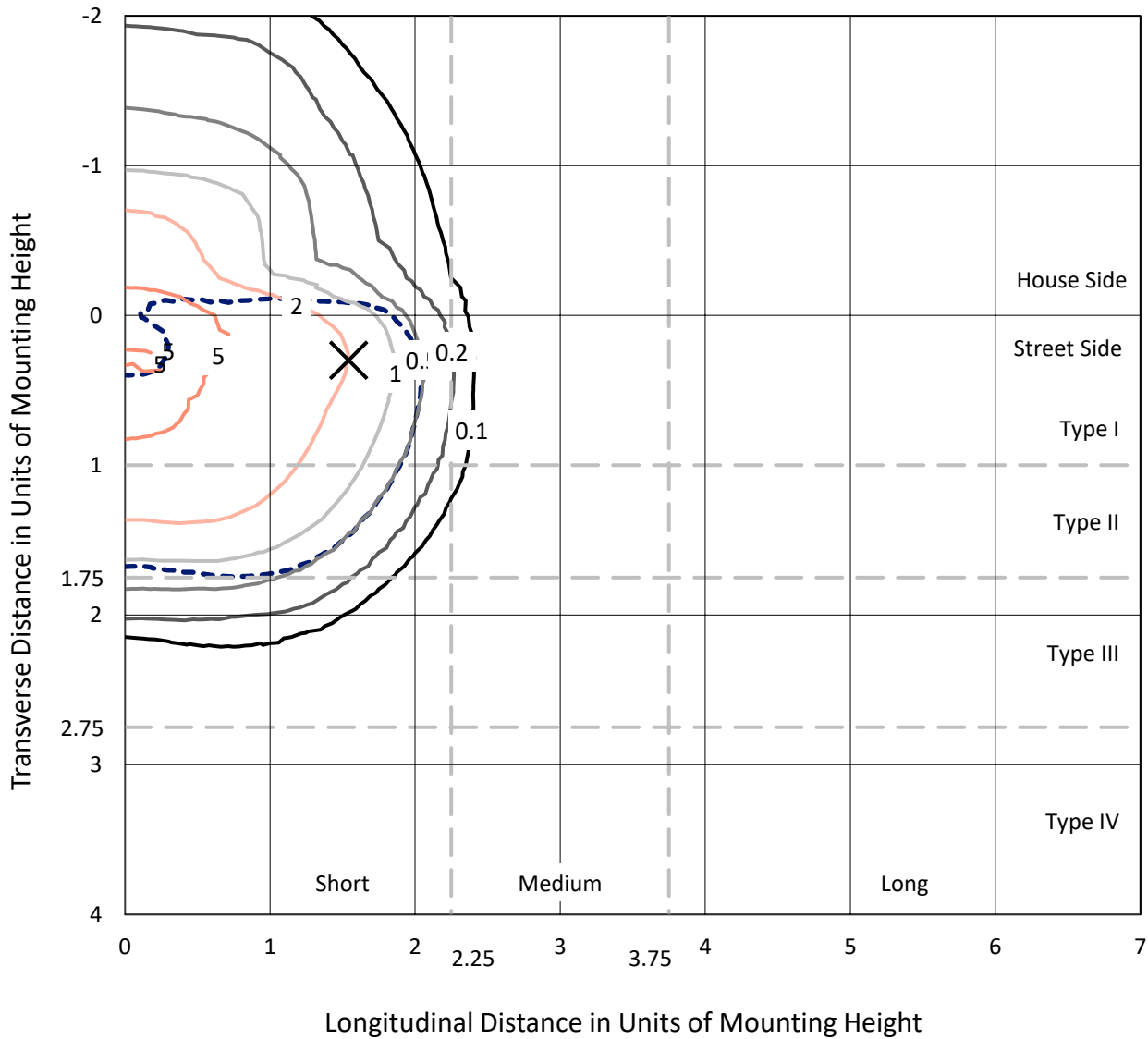
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

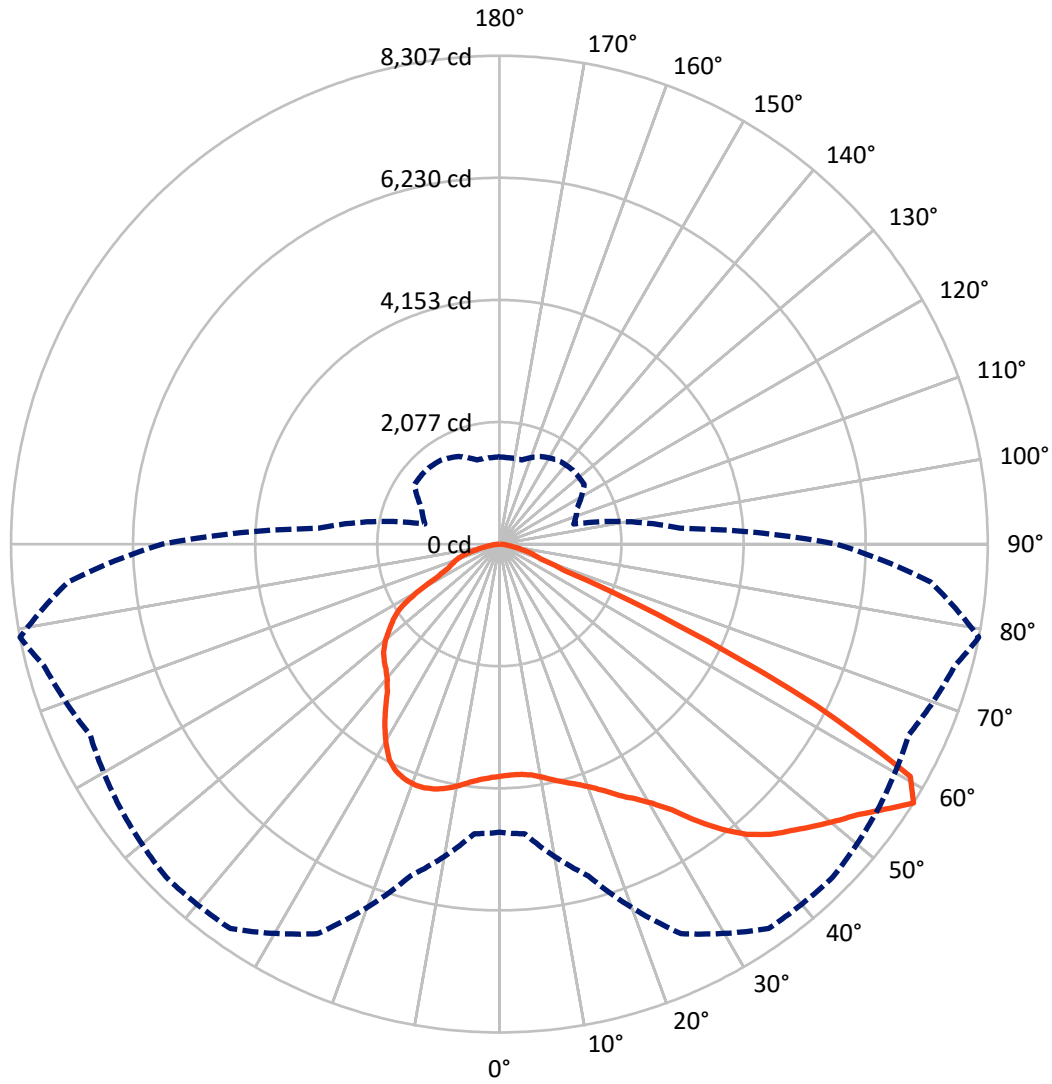
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4733.4	0.0	4733.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	11190.5	0.0	11190.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	15923.9	0.0	15923.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	2.3
10°-20°	1015.6	6.4
20°-30°	1721.5	10.8
30°-40°	2635.0	16.5
40°-50°	3513.5	22.1
50°-60°	4057.9	25.5
60°-70°	2108.6	13.2
70°-80°	448.2	2.8
80°-90°	58.1	0.4
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°	15923.9	100.0
0°-180°	15923.9	100.0

Coefficient of Utilization



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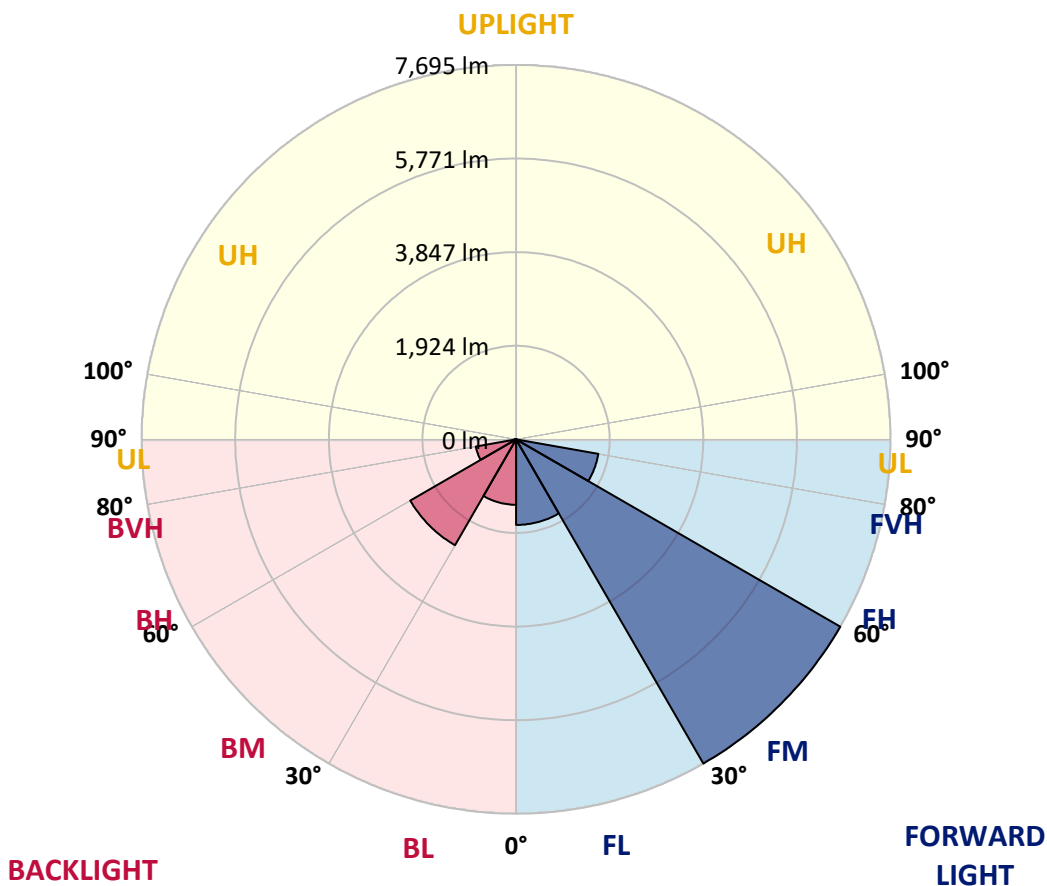
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.4	11.0			
FM (30°-60°)	7694.9	48.3			
FH (60°-80°)	1717.0	10.8			G1/1800
FVH (80°-90°)	20.2	0.1			G1/100
BL (0°-30°)	1344.2	8.4	B3/2500		
BM (30°-60°)	2511.5	15.8	B3/5000		
BH (60°-80°)	839.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	37.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3
2.5°	3766.6	3758.8	3761.4	3771.8	3810.9	3839.5	3869.5	3896.8	3922.9	3930.7	3937.2
5°	3632.5	3618.2	3622.1	3639.0	3684.6	3732.8	3786.2	3851.3	3913.8	3934.6	3961.9
7.5°	3537.5	3534.9	3541.4	3567.4	3615.6	3661.2	3730.2	3822.6	3930.7	3965.8	4014.0
10°	3411.2	3406.0	3432.0	3485.4	3564.8	3637.7	3719.8	3829.1	3980.2	4032.2	4106.5
12.5°	3310.9	3308.3	3335.7	3409.9	3511.4	3627.3	3740.6	3863.0	4046.6	4118.2	4209.3
15°	3369.5	3357.8	3359.1	3411.2	3502.3	3639.0	3792.7	3924.2	4113.0	4204.1	4321.3
17.5°	3540.1	3519.3	3503.6	3512.8	3564.8	3706.7	3872.1	4006.2	4189.8	4296.5	4439.8
20°	3775.8	3764.0	3721.1	3692.4	3704.1	3829.1	3997.1	4122.1	4290.0	4409.8	4563.5
22.5°	4092.1	4063.5	4004.9	3959.3	3924.2	4021.8	4176.8	4284.8	4429.3	4554.3	4714.5
25°	4484.0	4442.4	4349.9	4278.3	4202.8	4303.1	4441.1	4523.1	4620.7	4736.6	4888.9
27.5°	4883.7	4848.6	4745.7	4649.4	4555.6	4618.1	4782.2	4829.1	4818.6	4903.3	5033.5
30°	5309.5	5265.2	5167.6	5063.4	4942.3	4982.7	5129.8	5153.2	5042.6	5112.9	5201.4
32.5°	5758.7	5715.7	5631.1	5510.0	5373.3	5388.9	5429.3	5451.4	5345.9	5386.3	5454.0
35°	6215.7	6175.3	6089.4	5969.6	5869.3	5774.3	5672.7	5761.3	5700.1	5778.2	5773.0
37.5°	6633.6	6593.2	6539.9	6447.4	6275.6	6088.1	5853.7	5963.1	6058.1	6157.1	6140.2
40°	6916.1	6888.8	6901.8	6887.5	6666.2	6295.1	5942.3	6062.0	6321.1	6490.4	6481.3
42.5°	7159.6	7132.3	7207.8	7262.5	7002.1	6486.5	5985.2	6099.8	6489.1	6753.4	6740.4
45°	7267.7	7259.9	7384.8	7558.0	7309.3	6689.6	6095.9	6177.9	6616.7	6955.2	6905.7
47.5°	7138.8	7166.1	7412.2	7705.1	7564.5	6930.5	6322.4	6343.3	6783.3	7173.9	7034.6
50°	6882.3	6942.2	7274.2	7709.0	7750.7	7202.6	6636.2	6584.1	7007.3	7407.0	7102.3
52.5°	6508.6	6571.1	7112.7	7679.1	7857.5	7517.7	7054.1	6979.9	7289.8	7640.0	7114.0
55°	5650.6	5735.2	6743.0	7611.4	7961.6	7804.1	7525.5	7374.4	7654.4	7960.3	7229.9
57.5°	4902.0	4946.2	5842.0	7310.6	7982.5	8015.0	7861.4	7681.7	8016.3	8306.7	7360.1
60°	3597.4	3607.8	4413.7	6049.0	7343.2	7892.6	7834.0	7567.1	7844.4	8029.3	6763.8
62.5°	2032.4	2033.7	2676.9	4037.4	5485.3	6433.1	6469.6	6233.9	6000.8	6055.5	4708.0
65°	763.0	834.6	1222.6	1984.2	3162.5	3797.9	3948.9	4003.6	3615.6	3374.7	2524.5
67.5°	510.4	527.3	713.5	1020.8	1407.4	1624.9	1817.6	1822.8	1333.2	1188.7	994.7
70°	389.3	406.2	561.2	730.4	713.5	658.8	712.2	692.7	716.1	735.6	756.5
72.5°	290.3	307.3	434.9	515.6	428.4	421.8	477.8	531.2	580.7	601.5	634.1
75°	192.7	205.7	292.9	276.0	237.0	279.9	348.9	402.3	431.0	455.7	480.4
77.5°	122.4	131.5	156.2	126.3	131.5	164.0	203.1	251.3	278.6	303.4	316.4
80°	56.0	54.7	53.4	59.9	74.2	96.3	122.4	151.0	171.9	182.3	190.1
82.5°	22.1	24.7	27.3	32.5	40.4	52.1	69.0	88.5	105.5	108.1	114.6
85°	9.1	10.4	11.7	14.3	18.2	23.4	28.6	40.4	50.8	54.7	58.6
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	3.9	6.5	11.7	13.0	14.3
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°	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3	3946.3
2.5°	3972.4	3955.4	3984.1	4003.6	4021.8	4002.3	3995.8	3978.9	3976.3	3976.3	3985.4
5°	4008.8	3997.1	4027.0	4038.8	4037.4	3994.5	3968.4	3934.6	3917.7	3917.7	3920.3
7.5°	4073.9	4067.4	4084.3	4066.1	4024.4	3937.2	3851.3	3779.7	3731.5	3706.7	3714.6
10°	4182.0	4174.2	4159.8	4092.1	3972.4	3791.4	3615.6	3485.4	3407.3	3363.0	3365.6
12.5°	4287.4	4274.4	4223.6	4073.9	3827.8	3540.1	3309.6	3163.8	3077.9	3025.8	3014.1
15°	4403.3	4369.5	4260.1	3980.2	3592.2	3232.8	2992.0	2834.4	2742.0	2710.7	2709.4
17.5°	4514.0	4454.1	4256.2	3813.5	3309.6	2911.2	2669.1	2571.4	2555.8	2570.1	2574.0
20°	4625.9	4529.6	4213.2	3583.1	2973.7	2590.9	2466.0	2506.3	2564.9	2604.0	2613.1
22.5°	4741.8	4592.1	4115.6	3286.2	2619.6	2374.8	2426.9	2515.4	2588.3	2640.4	2645.6
25°	4872.0	4650.7	3969.7	2923.0	2335.8	2314.9	2417.8	2511.5	2589.6	2649.5	2660.0
27.5°	4946.2	4652.0	3765.3	2549.3	2205.6	2291.5	2395.6	2484.2	2562.3	2627.4	2639.1
30°	5019.1	4616.8	3441.1	2245.9	2167.8	2264.1	2357.9	2439.9	2514.1	2577.9	2592.2
32.5°	5122.0	4584.3	3067.5	2071.5	2145.7	2238.1	2314.9	2387.8	2445.1	2473.8	2481.6
35°	5249.6	4542.6	2670.4	1995.9	2131.3	2217.3	2285.0	2324.0	2249.8	2234.2	2251.1
37.5°	5428.0	4503.6	2274.6	1963.4	2122.2	2209.5	2269.4	2169.1	2078.0	2041.5	2054.5
40°	5620.7	4481.4	2006.4	1937.4	2126.1	2217.3	2204.3	2055.8	1924.3	1847.5	1844.9
42.5°	5784.7	4447.6	1834.5	1920.4	2136.6	2247.2	2115.7	1955.6	1760.3	1714.7	1716.0
45°	5895.4	4361.6	1743.4	1902.2	2145.7	2253.7	2074.1	1817.6	1678.3	1649.6	1648.3
47.5°	5940.9	4205.4	1684.8	1873.6	2144.4	2200.4	1989.4	1760.3	1621.0	1613.2	1618.4
50°	5911.0	3948.9	1624.9	1817.6	2113.1	2144.4	1891.8	1709.5	1581.9	1624.9	1656.1
52.5°	5800.3	3616.9	1553.3	1740.8	2057.1	2080.6	1842.3	1678.3	1553.3	1610.6	1635.3
55°	5771.7	3347.4	1462.1	1640.5	1973.8	1967.3	1790.2	1662.6	1533.7	1511.6	1515.5
57.5°	5733.9	3084.4	1311.1	1460.8	1762.9	1773.3	1740.8	1644.4	1483.0	1476.4	1483.0
60°	4981.4	2364.4	1169.2	1260.3	1447.8	1503.8	1684.8	1610.6	1400.9	1373.6	1372.3
62.5°	3253.7	1432.2	1040.3	1098.9	1179.6	1244.7	1536.3	1512.9	1311.1	1294.2	1305.9
65°	1749.9	1020.8	946.5	981.7	1026.0	1075.4	1273.3	1347.6	1184.8	1124.9	1126.2
67.5°	894.5	868.4	876.2	901.0	934.8	959.6	1027.3	1092.4	1010.3	959.6	958.3
70°	765.6	786.4	798.1	812.4	834.6	830.7	837.2	848.9	842.4	817.6	816.3
72.5°	652.3	684.8	687.4	690.1	697.9	679.6	667.9	648.4	649.7	653.6	654.9
75°	496.1	527.3	535.1	531.2	539.0	515.6	500.0	480.4	457.0	453.1	455.7
77.5°	322.9	347.6	359.3	356.7	360.6	342.4	334.6	313.8	286.4	276.0	276.0
80°	195.3	209.6	218.7	221.3	225.2	212.2	199.2	181.0	169.3	157.5	157.5
82.5°	118.5	127.6	134.1	134.1	138.0	123.7	113.3	100.3	95.0	84.6	84.6
85°	59.9	66.4	69.0	67.7	65.1	53.4	49.5	43.0	40.4	35.2	35.2
87.5°	14.3	18.2	18.2	13.0	13.0	6.5	3.9	1.3	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)