

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: P637731

Luminaire Tested: GWS-SA4D-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637731
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-SA4D-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21176 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 162.1
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

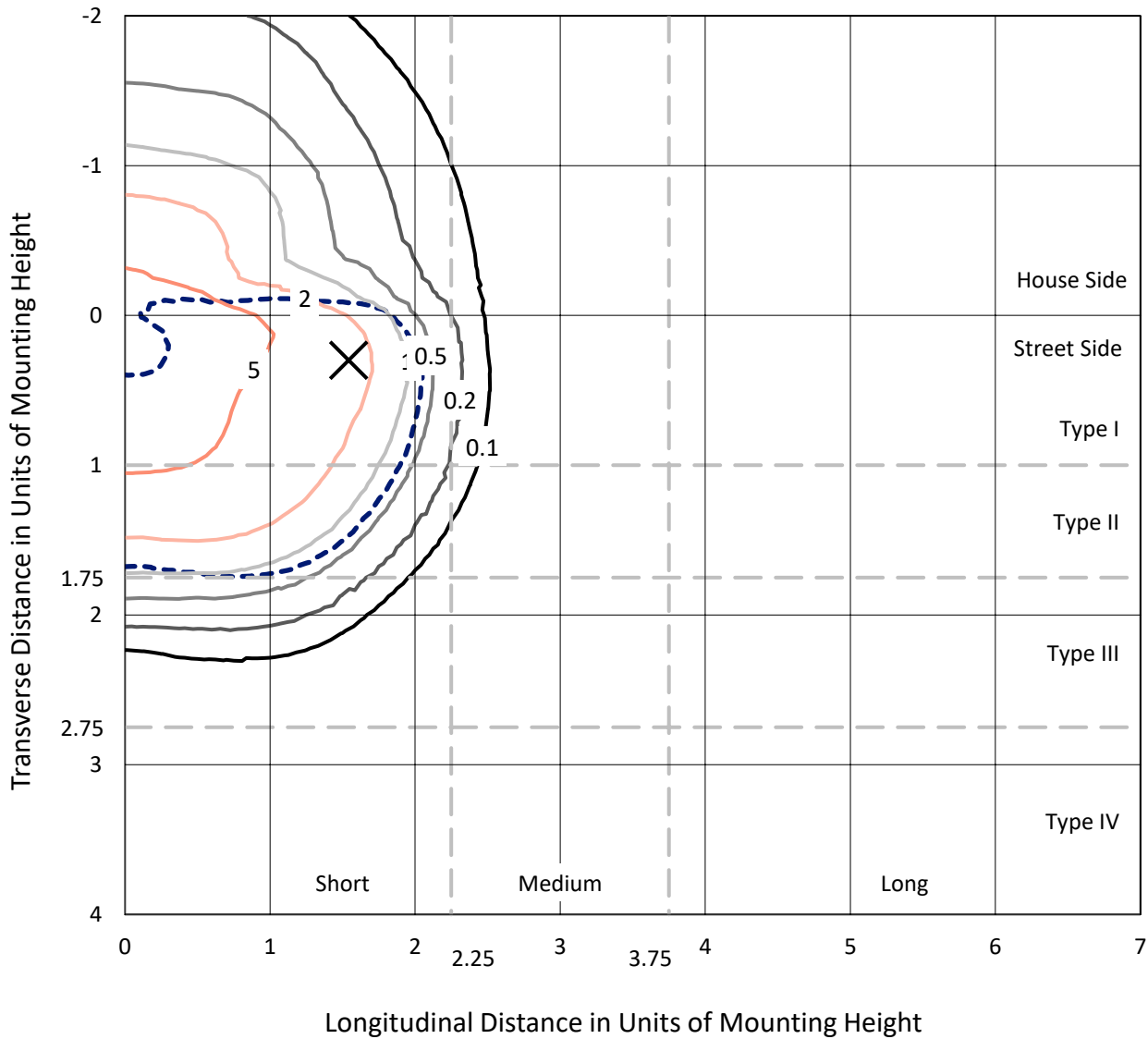


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Iso-Footcandle Lines of Horizontal Illumination

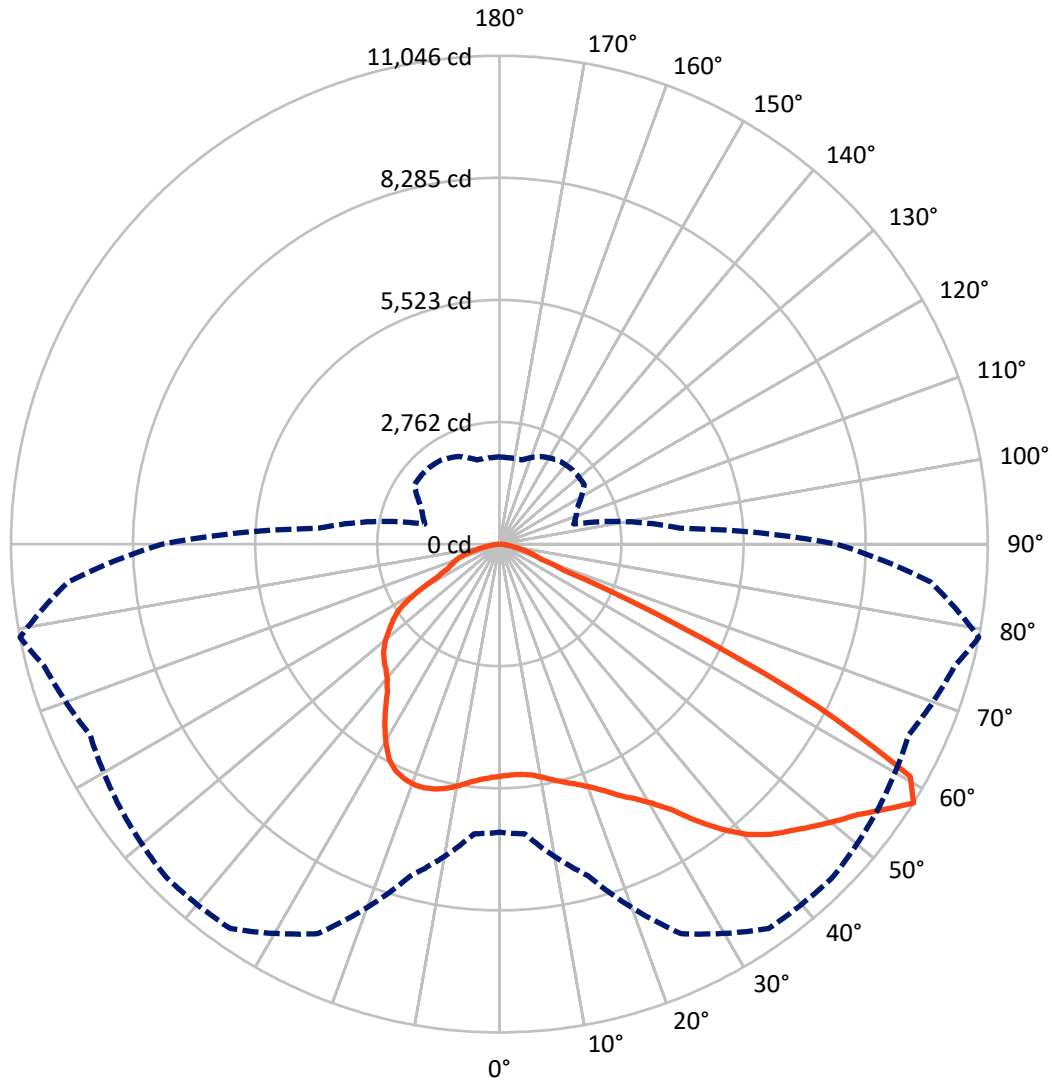
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	6294.6	0.0	6294.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	14881.4	0.0	14881.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	21176.0	0.0	21176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.0	2.3
10°-20°	1350.6	6.4
20°-30°	2289.3	10.8
30°-40°	3504.1	16.5
40°-50°	4672.4	22.1
50°-60°	5396.2	25.5
60°-70°	2804.1	13.2
70°-80°	596.1	2.8
80°-90°	77.2	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°	21176.0	100.0
0°-180°	21176.0	100.0

Coefficient of Utilization



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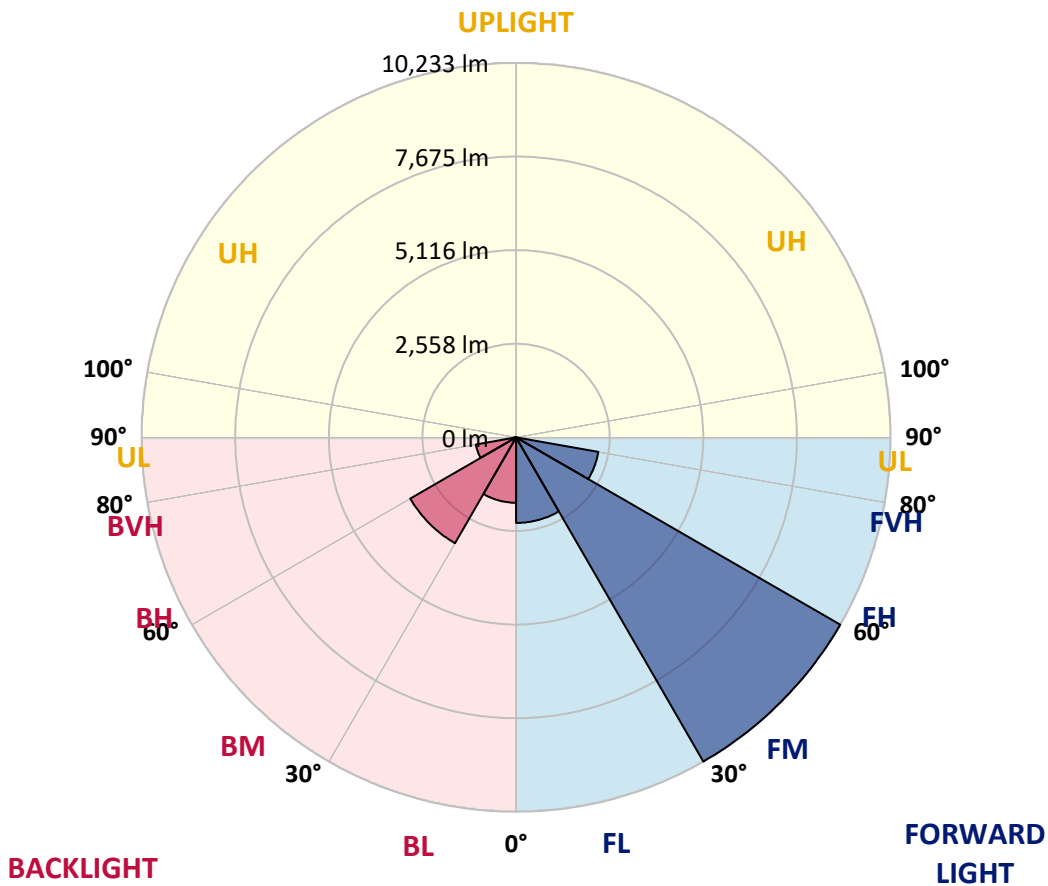
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.3	11.0			
FM (30°-60°)	10232.8	48.3			
FH (60°-80°)	2283.3	10.8			G2/5000
FVH (80°-90°)	26.9	0.1			G1/100
BL (0°-30°)	1787.6	8.4	B3/2500		
BM (30°-60°)	3339.9	15.8	B3/5000		
BH (60°-80°)	1116.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	50.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9
2.5°	5009.0	4998.6	5002.0	5015.9	5067.8	5105.9	5145.7	5182.1	5216.7	5227.1	5235.8
5°	4830.6	4811.6	4816.8	4839.3	4899.9	4964.0	5034.9	5121.5	5204.6	5232.3	5268.7
7.5°	4704.2	4700.8	4709.4	4744.1	4808.1	4868.7	4960.5	5083.4	5227.1	5273.9	5337.9
10°	4536.3	4529.4	4564.0	4635.0	4740.6	4837.6	4946.6	5092.1	5292.9	5362.2	5460.9
12.5°	4403.0	4399.5	4435.9	4534.6	4669.6	4823.7	4974.3	5137.1	5381.2	5476.4	5597.6
15°	4480.9	4465.3	4467.0	4536.3	4657.5	4839.3	5043.6	5218.5	5469.5	5590.7	5746.5
17.5°	4707.7	4680.0	4659.2	4671.3	4740.6	4929.3	5149.2	5327.5	5571.7	5713.7	5904.1
20°	5021.1	5005.5	4948.4	4910.3	4925.9	5092.1	5315.4	5481.6	5705.0	5864.3	6068.6
22.5°	5441.8	5403.7	5325.8	5265.2	5218.5	5348.3	5554.4	5698.1	5890.3	6056.5	6269.4
25°	5963.0	5907.6	5784.6	5689.4	5589.0	5722.3	5905.8	6014.9	6144.8	6298.9	6501.4
27.5°	6494.5	6447.8	6311.0	6182.9	6058.2	6141.3	6359.5	6421.8	6407.9	6520.5	6693.6
30°	7060.7	7001.8	6872.0	6733.5	6572.4	6626.1	6821.8	6852.9	6705.7	6799.2	6917.0
32.5°	7658.0	7600.9	7488.3	7327.3	7145.5	7166.3	7220.0	7249.4	7109.2	7162.8	7252.9
35°	8265.7	8212.1	8097.8	7938.5	7805.2	7678.8	7543.8	7661.5	7580.1	7684.0	7677.1
37.5°	8821.5	8767.9	8696.9	8573.9	8345.4	8096.1	7784.4	7929.9	8056.2	8187.8	8165.3
40°	9197.2	9160.9	9178.2	9159.2	8864.8	8371.4	7902.2	8061.4	8406.0	8631.1	8619.0
42.5°	9521.0	9484.7	9585.1	9657.8	9311.5	8625.9	7959.3	8111.7	8629.3	8980.8	8963.5
45°	9664.7	9654.3	9820.6	10050.8	9720.1	8896.0	8106.5	8215.5	8799.0	9249.2	9183.4
47.5°	9493.3	9529.7	9856.9	10246.5	10059.5	9216.3	8407.7	8435.4	9020.6	9540.1	9354.8
50°	9152.2	9231.9	9673.4	10251.7	10307.1	9578.2	8825.0	8755.7	9318.4	9850.0	9444.8
52.5°	8655.3	8738.4	9458.7	10211.9	10449.1	9997.2	9380.8	9282.1	9694.2	10159.9	9460.4
55°	7514.3	7626.9	8967.0	10121.8	10587.6	10378.1	10007.5	9806.7	10179.0	10585.8	9614.5
57.5°	6518.8	6577.6	7768.8	9721.9	10615.3	10658.6	10454.3	10215.3	10660.3	11046.4	9787.7
60°	4783.9	4797.7	5869.5	8044.1	9765.1	10495.8	10417.9	10063.0	10431.7	10677.6	8994.7
62.5°	2702.7	2704.5	3559.8	5369.1	7294.4	8554.9	8603.4	8290.0	7980.1	8052.8	6260.8
65°	1014.6	1109.8	1625.8	2638.7	4205.6	5050.5	5251.4	5324.1	4808.1	4487.8	3357.2
67.5°	678.7	701.2	948.8	1357.4	1871.7	2160.8	2417.0	2424.0	1773.0	1580.8	1322.8
70°	517.7	540.2	746.2	971.3	948.8	876.1	947.1	921.1	952.3	978.2	1005.9
72.5°	386.1	408.6	578.3	685.6	569.6	561.0	635.4	706.4	772.2	799.9	843.2
75°	256.2	273.6	389.6	367.1	315.1	372.3	464.0	535.0	573.1	606.0	638.9
77.5°	162.8	174.9	207.8	167.9	174.9	218.2	270.1	334.2	370.5	403.4	420.7
80°	74.5	72.7	71.0	79.6	98.7	128.1	162.8	200.8	228.5	242.4	252.8
82.5°	29.4	32.9	36.4	43.3	53.7	69.3	91.8	117.7	140.2	143.7	152.4
85°	12.1	13.9	15.6	19.0	24.2	31.2	38.1	53.7	67.5	72.7	77.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	5.2	8.7	15.6	17.3	19.0
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°	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9	5247.9
2.5°	5282.5	5260.0	5298.1	5324.1	5348.3	5322.4	5313.7	5291.2	5287.7	5287.7	5299.8
5°	5331.0	5315.4	5355.2	5370.8	5369.1	5312.0	5277.3	5232.3	5209.8	5209.8	5213.3
7.5°	5417.6	5408.9	5431.4	5407.2	5351.8	5235.8	5121.5	5026.3	4962.2	4929.3	4939.7
10°	5561.3	5550.9	5531.9	5441.8	5282.5	5041.9	4808.1	4635.0	4531.1	4472.2	4475.7
12.5°	5701.5	5684.2	5616.7	5417.6	5090.3	4707.7	4401.2	4207.3	4093.1	4023.8	4008.2
15°	5855.6	5810.6	5665.2	5292.9	4777.0	4299.1	3978.8	3769.3	3646.3	3604.8	3603.1
17.5°	6002.8	5923.2	5660.0	5071.3	4401.2	3871.4	3549.4	3419.5	3398.8	3417.8	3423.0
20°	6151.7	6023.6	5602.8	4764.8	3954.5	3445.5	3279.3	3333.0	3410.9	3462.8	3474.9
22.5°	6305.8	6106.7	5473.0	4370.1	3483.6	3158.1	3227.3	3345.1	3442.0	3511.3	3518.2
25°	6478.9	6184.6	5279.1	3887.0	3106.1	3078.4	3215.2	3339.9	3443.8	3523.4	3537.3
27.5°	6577.6	6186.3	5007.2	3390.1	2933.0	3047.3	3185.8	3303.5	3407.4	3494.0	3509.6
30°	6674.6	6139.6	4576.1	2986.7	2882.8	3010.9	3135.6	3244.7	3343.4	3428.2	3447.2
32.5°	6811.4	6096.3	4079.2	2754.7	2853.4	2976.3	3078.4	3175.4	3251.6	3289.7	3300.1
35°	6981.0	6040.9	3551.1	2654.3	2834.3	2948.6	3038.6	3090.6	2991.9	2971.1	2993.6
37.5°	7218.2	5988.9	3024.8	2611.0	2822.2	2938.2	3017.8	2884.5	2763.3	2714.9	2732.2
40°	7474.5	5959.5	2668.1	2576.3	2827.4	2948.6	2931.3	2733.9	2559.0	2456.9	2453.4
42.5°	7692.7	5914.5	2439.6	2553.8	2841.2	2988.4	2813.5	2600.6	2340.9	2280.3	2282.0
45°	7839.8	5800.2	2318.4	2529.6	2853.4	2997.1	2758.1	2417.0	2231.8	2193.7	2192.0
47.5°	7900.4	5592.5	2240.4	2491.5	2851.6	2926.1	2645.6	2340.9	2155.6	2145.2	2152.1
50°	7860.6	5251.4	2160.8	2417.0	2810.1	2851.6	2515.7	2273.3	2103.7	2160.8	2202.4
52.5°	7713.4	4809.9	2065.6	2314.9	2735.6	2766.8	2449.9	2231.8	2065.6	2141.8	2174.7
55°	7675.3	4451.5	1944.4	2181.6	2624.8	2616.2	2380.7	2211.0	2039.6	2010.2	2015.4
57.5°	7625.1	4101.7	1743.5	1942.6	2344.3	2358.2	2314.9	2186.8	1972.1	1963.4	1972.1
60°	6624.4	3144.2	1554.8	1676.0	1925.3	1999.8	2240.4	2141.8	1863.0	1826.6	1824.9
62.5°	4326.8	1904.6	1383.4	1461.3	1568.7	1655.2	2043.1	2011.9	1743.5	1721.0	1736.6
65°	2327.0	1357.4	1258.7	1305.5	1364.4	1430.1	1693.3	1792.0	1575.6	1495.9	1497.7
67.5°	1189.5	1154.9	1165.2	1198.1	1243.2	1276.0	1366.1	1452.7	1343.6	1276.0	1274.3
70°	1018.1	1045.8	1061.4	1080.4	1109.8	1104.6	1113.3	1128.9	1120.2	1087.3	1085.6
72.5°	867.4	910.7	914.2	917.6	928.0	903.8	888.2	862.2	864.0	869.2	870.9
75°	659.7	701.2	711.6	706.4	716.8	685.6	664.9	638.9	607.7	602.5	606.0
77.5°	429.4	462.3	477.9	474.4	479.6	455.4	445.0	417.3	380.9	367.1	367.1
80°	259.7	278.8	290.9	294.3	299.5	282.2	264.9	240.7	225.1	209.5	209.5
82.5°	157.6	169.7	178.3	178.3	183.5	164.5	150.6	133.3	126.4	112.5	112.5
85°	79.6	88.3	91.8	90.0	86.6	71.0	65.8	57.1	53.7	46.7	46.7
87.5°	19.0	24.2	24.2	17.3	17.3	8.7	5.2	1.7	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)