

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: P643667

Luminaire Tested: GWS-SA6F-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41896.9 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

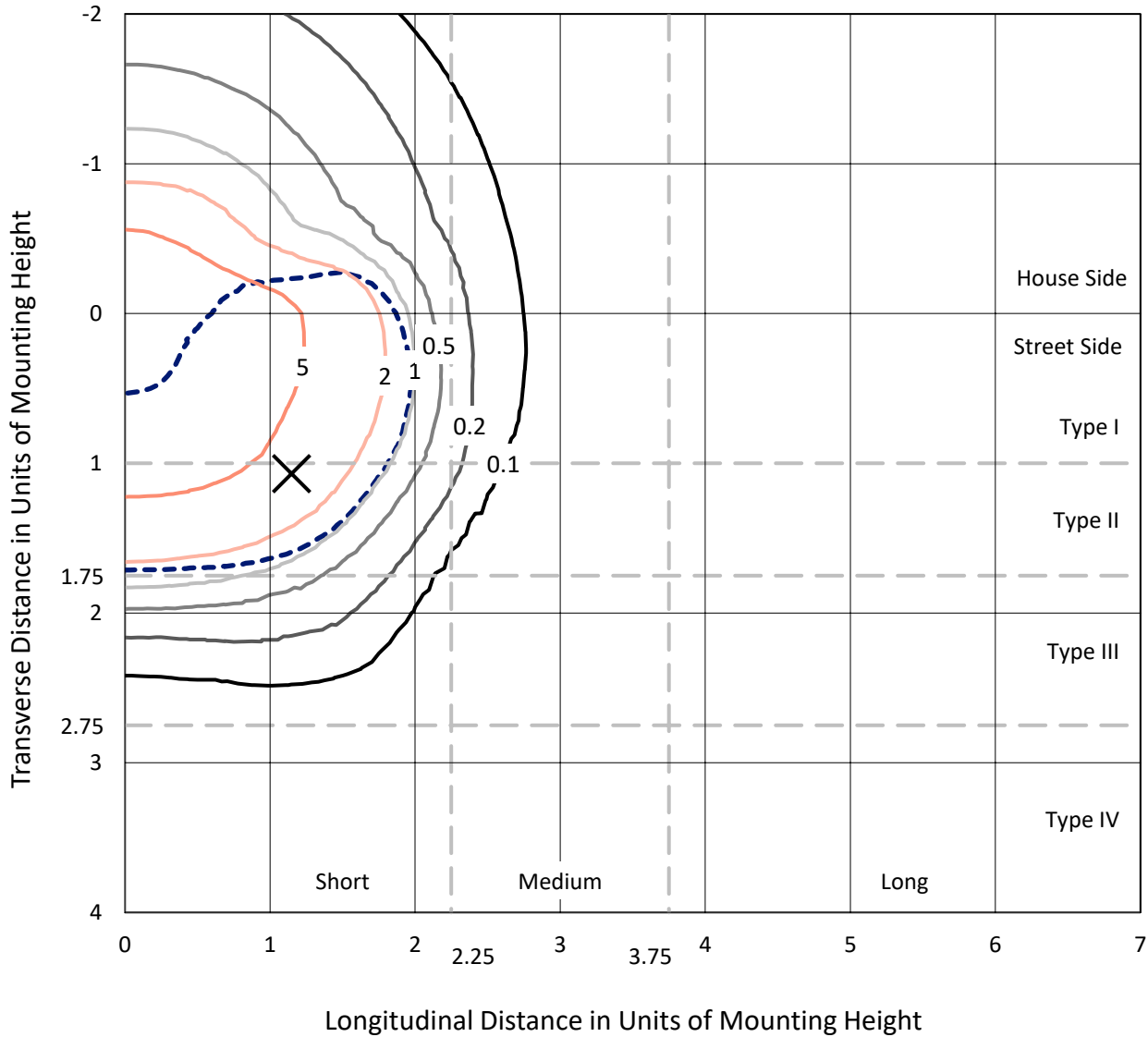
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

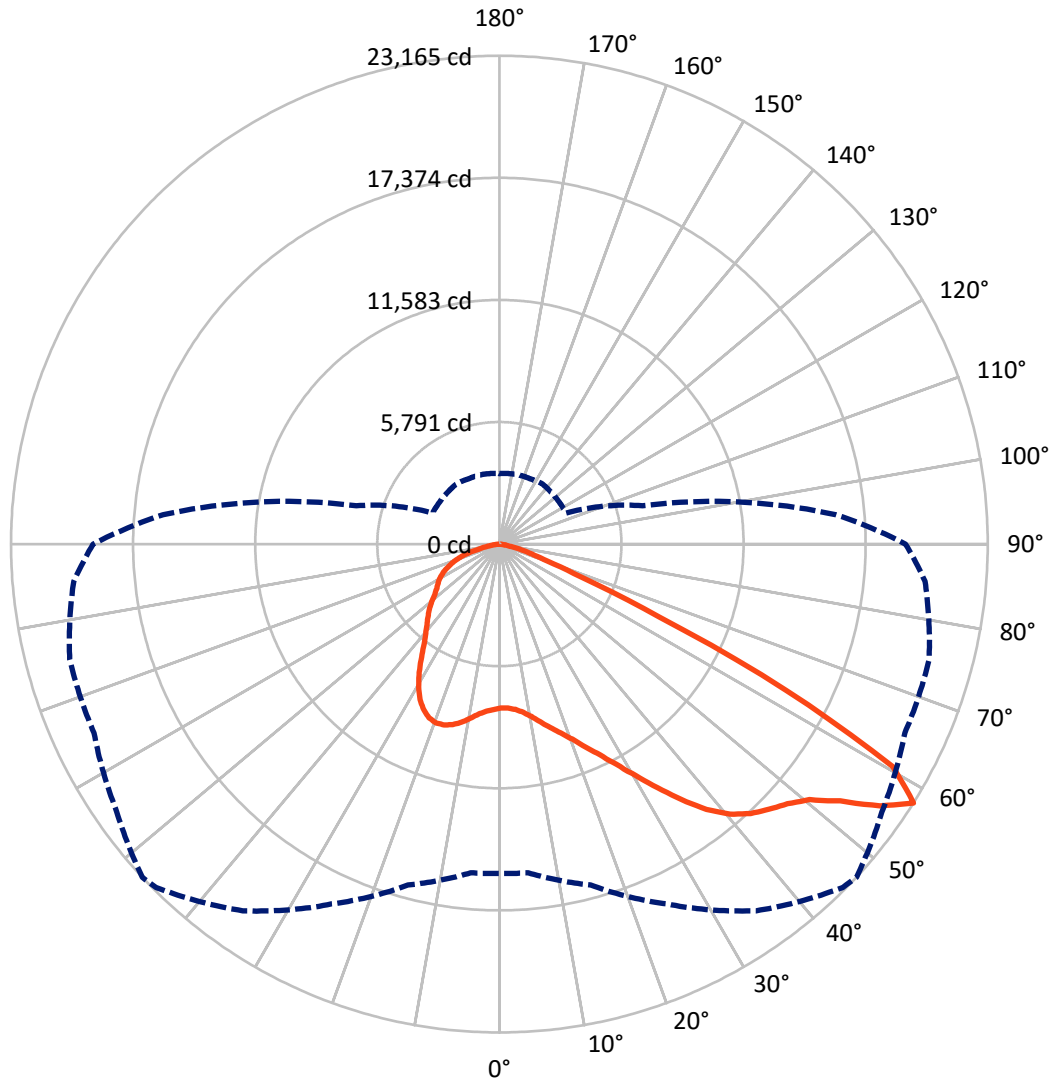
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13260.3	0.0	13260.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	28636.6	0.0	28636.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	41896.9	0.0	41896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.4	1.8
10°-20°	2520.6	6.0
20°-30°	4538.6	10.8
30°-40°	6855.0	16.4
40°-50°	9231.0	22.0
50°-60°	11092.4	26.5
60°-70°	5402.2	12.9
70°-80°	1330.9	3.2
80°-90°	159.9	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°	41896.9	100.0
0°-180°	41896.9	100.0

Coefficient of Utilization



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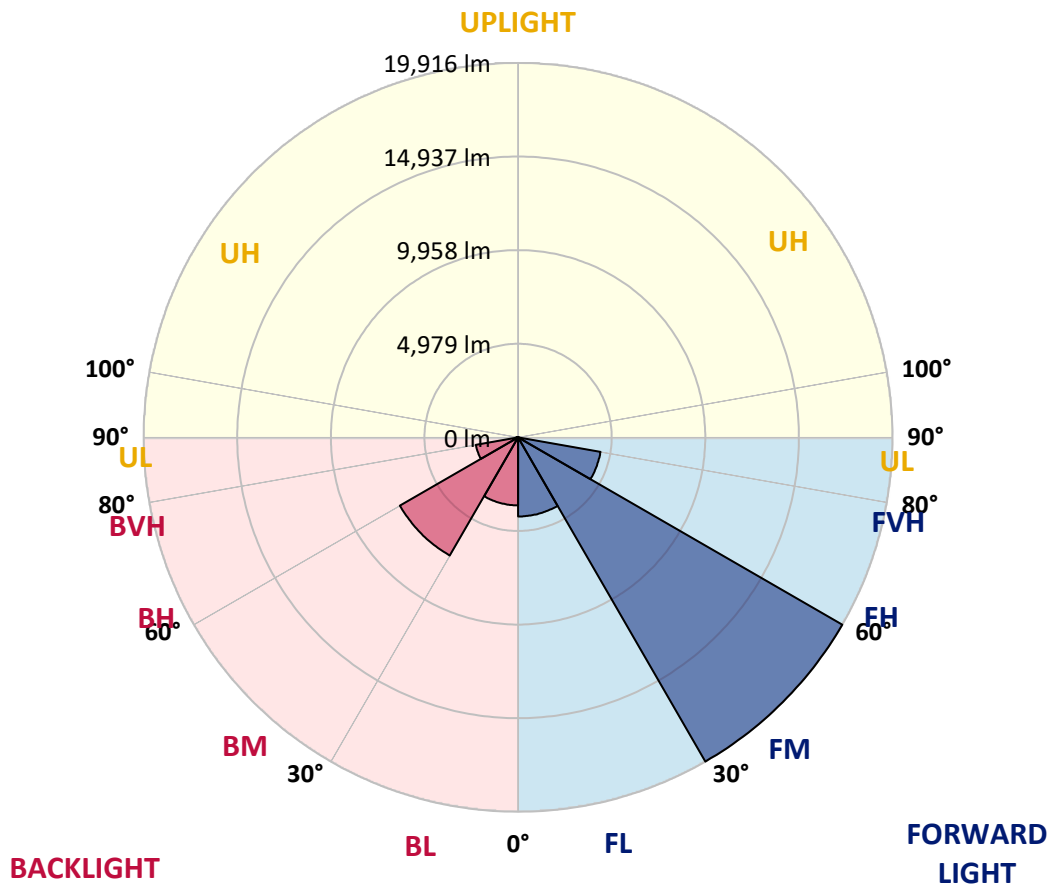
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4208.3	10.0			
FM (30°-60°)	19915.8	47.5			
FH (60°-80°)	4452.4	10.6			G2/5000
FVH (80°-90°)	60.1	0.1			G1/100
BL (0°-30°)	3617.2	8.6	B4/5000		
BM (30°-60°)	7262.6	17.3	B4/8500		
BH (60°-80°)	2280.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	99.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8
2.5°	7755.8	7752.2	7752.2	7773.4	7773.4	7780.4	7791.0	7801.5	7805.0	7787.4	7748.7
5°	7840.2	7840.2	7840.2	7857.8	7857.8	7864.9	7878.9	7882.4	7878.9	7850.8	7812.1
7.5°	7973.9	7973.9	7977.5	7998.6	8016.2	8026.7	8051.4	8047.8	8037.3	7991.5	7942.3
10°	8192.1	8202.7	8213.2	8237.9	8273.1	8297.7	8315.3	8315.3	8301.2	8230.8	8167.5
12.5°	8501.8	8515.9	8526.4	8547.5	8575.7	8617.9	8656.6	8656.6	8639.0	8551.0	8456.0
15°	8864.2	8878.3	8874.8	8881.8	8934.6	8994.4	9026.1	9047.2	9054.3	8931.1	8783.3
17.5°	9279.5	9293.5	9279.5	9258.4	9265.4	9360.4	9416.7	9494.1	9539.9	9374.5	9138.7
20°	9656.0	9641.9	9641.9	9656.0	9677.1	9793.2	9877.7	10004.4	10060.7	9860.1	9494.1
22.5°	10053.6	10085.3	10071.2	10071.2	10155.7	10349.2	10451.3	10616.7	10676.5	10416.1	9923.4
25°	10567.4	10595.6	10588.5	10595.6	10694.1	10968.6	11070.6	11376.8	11436.6	11063.6	10398.5
27.5°	11130.4	11176.2	11197.3	11190.3	11348.6	11707.5	11834.2	12260.0	12369.1	11788.5	10905.2
30°	11862.4	11911.6	11929.2	11922.2	12108.7	12597.8	12742.1	13227.7	13382.6	12647.1	11549.2
32.5°	12710.4	12759.7	12812.5	12833.6	13072.9	13572.6	13780.2	14283.4	14505.1	13639.4	12326.9
35°	13551.5	13593.7	13695.8	13861.1	14188.4	14698.7	14881.6	15377.8	15592.5	14670.5	13266.4
37.5°	14480.5	14508.6	14596.6	14825.3	15296.9	15782.5	15965.5	16440.5	16465.2	15666.4	14329.2
40°	15497.5	15497.5	15479.9	15705.1	16197.7	16686.9	16845.2	17119.7	16975.4	16433.5	15363.7
42.5°	16359.6	16345.5	16359.6	16570.7	16936.7	17334.3	17471.6	17418.8	17235.8	17021.2	16299.8
45°	17137.3	17147.8	17274.5	17436.4	17626.4	17862.2	17943.1	17644.0	17478.6	17492.7	17049.3
47.5°	17665.1	17675.7	17971.3	18242.2	18358.4	18432.3	18397.1	17981.8	17897.4	18055.7	17626.4
50°	17735.5	17791.8	18302.1	18858.1	19146.6	19157.2	19058.6	18551.9	18527.3	18706.7	17936.1
52.5°	17749.6	17805.9	18442.8	19445.7	20195.3	20353.6	20241.0	19713.2	19456.3	19276.8	18316.1
55°	17696.8	17760.1	18463.9	19839.8	21275.6	21909.0	21919.5	21173.5	20353.6	20234.0	19400.0
57.5°	15624.1	15648.8	16739.6	18836.9	21233.3	23028.0	23165.2	22151.8	21215.7	21103.1	20269.1
60°	10884.1	10982.6	12168.5	14937.9	17837.6	21001.1	21444.5	21148.9	20522.5	19702.6	17390.6
62.5°	5450.9	5535.3	6724.7	9342.8	12302.2	14800.7	15275.8	15588.9	15736.7	14857.0	11841.3
65°	2347.1	2410.5	3149.5	4880.8	6964.0	8171.0	8336.4	8712.9	9634.9	8596.8	6379.9
67.5°	1569.5	1611.7	1988.2	2977.0	4103.1	4180.5	4155.9	4236.8	4437.4	3663.2	2882.0
70°	1203.5	1238.7	1492.0	2181.7	2948.9	2523.1	2389.4	2167.7	2354.2	2399.9	2336.6
72.5°	872.7	900.9	1090.9	1488.5	1847.4	1611.7	1590.6	1703.2	1956.5	2026.9	1988.2
75°	563.0	577.1	693.2	816.4	953.6	1034.6	1076.8	1280.9	1537.8	1590.6	1544.8
77.5°	376.5	387.1	453.9	524.3	541.9	545.4	559.5	651.0	827.0	925.5	914.9
80°	197.1	197.1	221.7	221.7	253.4	302.6	316.7	376.5	457.5	506.7	510.2
82.5°	77.4	80.9	95.0	105.6	126.7	154.8	165.4	197.1	239.3	274.5	306.1
85°	31.7	35.2	38.7	45.7	56.3	70.4	73.9	84.5	112.6	140.8	158.4
87.5°	0.0	0.0	3.5	3.5	7.0	10.6	10.6	14.1	17.6	31.7	42.2
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°	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8	7769.8
2.5°	7794.5	7748.7	7794.5	7808.5	7847.3	7861.3	7836.7	7833.2	7833.2	7798.0	7787.4
5°	7847.3	7805.0	7850.8	7871.9	7928.2	7963.4	7970.4	7998.6	8016.2	8002.1	7998.6
7.5°	7977.5	7924.7	7973.9	8005.6	8079.5	8135.8	8160.4	8223.8	8269.5	8262.5	8259.0
10°	8206.2	8135.8	8192.1	8244.9	8325.8	8392.7	8396.2	8431.4	8477.1	8463.1	8456.0
12.5°	8470.1	8403.3	8466.6	8519.4	8614.4	8642.5	8596.8	8582.7	8589.8	8572.2	8558.1
15°	8793.9	8698.8	8755.1	8815.0	8867.8	8836.1	8737.6	8698.8	8695.3	8670.7	8656.6
17.5°	9117.6	8998.0	9040.2	9071.9	9047.2	8948.7	8825.5	8758.7	8727.0	8677.7	8663.7
20°	9437.8	9286.5	9279.5	9254.8	9142.2	8962.8	8797.4	8663.7	8582.7	8515.9	8491.2
22.5°	9803.8	9592.7	9487.1	9374.5	9128.2	8836.1	8586.2	8396.2	8266.0	8181.6	8153.4
25°	10197.9	9898.8	9680.6	9455.4	8987.4	8565.1	8216.7	7956.3	7801.5	7710.0	7678.3
27.5°	10588.5	10176.8	9849.5	9466.0	8705.9	8174.5	7706.5	7354.6	7199.8	7125.9	7101.2
30°	11116.4	10546.3	10050.1	9328.7	8336.4	7632.6	7048.5	6693.0	6591.0	6538.2	6517.1
32.5°	11725.1	11014.3	10317.6	9040.2	7864.9	6999.2	6383.4	6137.0	6066.7	5964.6	5961.1
35°	12527.5	11682.9	10570.9	8614.4	7270.1	6320.0	5873.1	5697.2	5570.5	5408.6	5394.5
37.5°	13463.5	12516.9	10708.2	8072.5	6576.9	5760.5	5493.1	5296.0	5091.9	4877.3	4849.1
40°	14431.2	13491.7	10718.7	7432.0	5897.8	5391.0	5165.8	4908.9	4655.6	4416.3	4384.6
42.5°	15448.2	14399.5	10532.2	6693.0	5341.8	5070.8	4842.1	4518.3	4233.3	4071.4	4053.8
45°	16356.1	15131.5	10109.9	5915.4	4930.0	4803.4	4511.3	4162.9	4011.6	3895.5	3870.8
47.5°	17070.4	15617.1	9539.9	5218.6	4595.7	4528.9	4148.8	3969.4	3853.2	3747.7	3723.0
50°	17422.3	15726.2	8797.4	4652.1	4286.1	4205.1	3944.7	3807.5	3730.1	3645.6	3624.5
52.5°	17858.7	15849.3	8156.9	4177.0	3983.5	3874.4	3775.8	3666.7	3610.4	3557.7	3540.1
55°	18861.6	16313.9	7819.1	3796.9	3694.9	3645.6	3631.6	3540.1	3522.5	3487.3	3455.6
57.5°	19269.8	16014.7	7020.3	3487.3	3466.2	3473.2	3508.4	3423.9	3406.3	3364.1	3343.0
60°	15497.5	12105.2	4754.1	3219.8	3276.1	3321.9	3357.1	3272.6	3248.0	3241.0	3212.8
62.5°	9930.5	7446.1	3318.4	2970.0	3054.4	3110.8	3131.9	3050.9	3033.3	3089.6	3093.2
65°	5169.3	4057.3	2692.0	2702.6	2772.9	2857.4	2899.6	2871.5	2864.4	2924.2	2927.8
67.5°	2639.2	2480.9	2347.1	2385.8	2442.2	2551.2	2649.8	2772.9	2815.2	2822.2	2825.7
70°	2248.6	2178.2	2111.4	2136.0	2195.8	2255.6	2350.7	2410.5	2340.1	2322.5	2315.5
72.5°	1914.3	1861.5	1829.9	1858.0	1889.7	1879.1	1851.0	1879.1	1889.7	1893.2	1896.7
75°	1488.5	1449.8	1425.2	1428.7	1428.7	1390.0	1337.2	1305.5	1270.3	1242.2	1242.2
77.5°	911.4	918.4	943.1	939.6	936.0	922.0	869.2	841.0	756.6	731.9	731.9
80°	520.8	531.4	556.0	563.0	563.0	545.4	492.7	461.0	422.3	404.7	401.2
82.5°	316.7	330.8	344.9	351.9	355.4	334.3	288.6	263.9	242.8	225.2	225.2
85°	165.4	172.4	186.5	190.0	179.5	158.4	133.7	123.2	102.0	98.5	98.5
87.5°	45.7	49.3	56.3	45.7	42.2	31.7	17.6	14.1	7.0	3.5	3.5
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)