

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: P641169

Luminaire Tested: GWS-SA5F-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34474.7 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

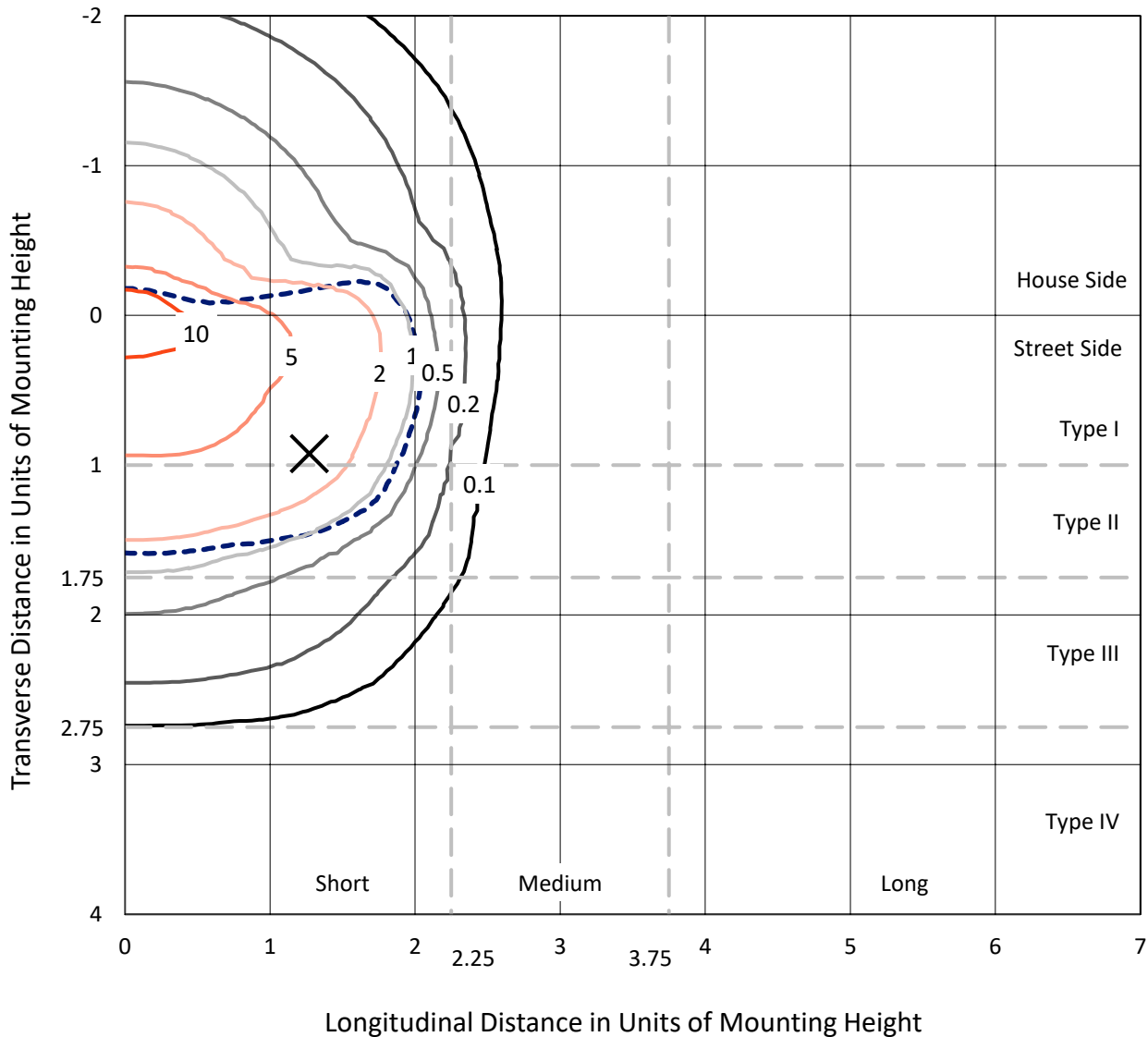
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

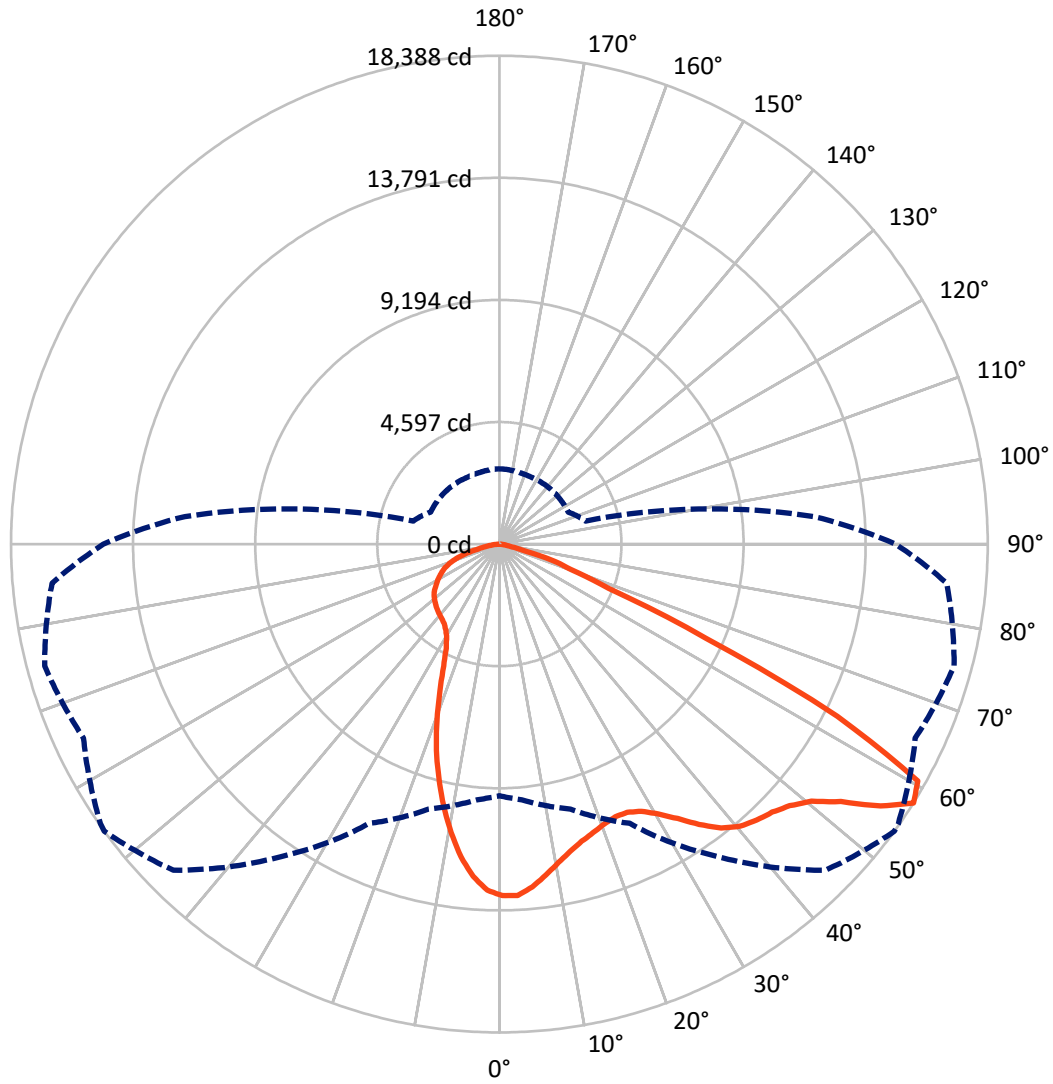
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10022.2	0.0	10022.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	24452.5	0.0	24452.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	34474.7	0.0	34474.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1163.4	3.4
10°-20°	2776.0	8.1
20°-30°	3841.6	11.1
30°-40°	5337.9	15.5
40°-50°	7049.7	20.4
50°-60°	8377.6	24.3
60°-70°	4641.3	13.5
70°-80°	1155.8	3.4
80°-90°	131.4	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°	34474.7	100.0
0°-180°	34474.7	100.0

Coefficient of Utilization



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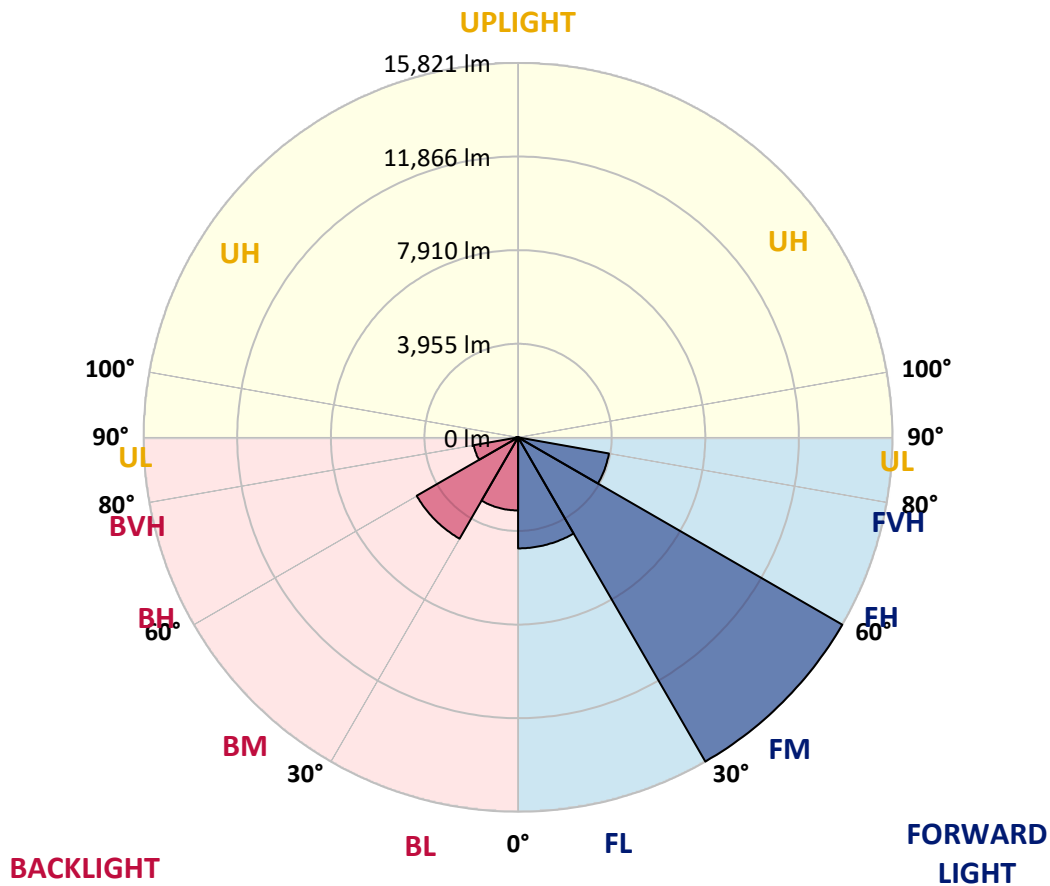
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4692.6	13.6			
FM (30°-60°)	15821.0	45.9			
FH (60°-80°)	3897.8	11.3			G2/5000
FVH (80°-90°)	41.1	0.1			G1/100
BL (0°-30°)	3088.4	9.0	B4/5000		
BM (30°-60°)	4944.2	14.3	B3/5000		
BH (60°-80°)	1899.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	90.3	0.3			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°	54°	55°	65°	75°	85°
0°	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6
2.5°	12987.7	13014.3	13032.0	13094.0	13147.1	13194.3	13244.5	13244.5	13241.5	13232.7	13215.0
5°	12474.2	12503.8	12545.1	12630.6	12745.7	12828.4	12964.1	12975.9	13034.9	13058.6	13046.8
7.5°	11878.1	11887.0	11940.1	12052.2	12235.2	12382.8	12577.5	12601.1	12742.8	12825.4	12810.7
10°	11225.9	11196.4	11290.9	11456.1	11695.2	11943.0	12193.9	12214.5	12441.8	12598.2	12586.4
12.5°	10629.8	10632.8	10727.2	10927.9	11225.9	11532.8	11869.3	11916.5	12196.8	12397.5	12376.9
15°	10131.1	10142.9	10258.0	10485.2	10824.6	11190.5	11609.6	11653.8	12008.0	12273.6	12214.5
17.5°	9732.7	9744.5	9844.8	10104.5	10467.5	10910.2	11420.7	11465.0	11904.7	12220.4	12099.5
20°	9458.2	9452.3	9549.7	9797.6	10172.4	10653.4	11255.4	11320.4	11872.2	12241.1	12022.7
22.5°	9346.1	9343.1	9414.0	9617.6	9968.8	10455.7	11155.1	11243.6	11907.6	12332.6	11975.5
25°	9402.2	9390.4	9452.3	9602.8	9883.2	10379.0	11184.6	11279.1	12058.1	12521.5	11984.4
27.5°	9576.3	9561.5	9614.6	9750.4	9962.9	10458.6	11391.2	11500.4	12376.9	12866.7	12102.4
30°	9841.9	9833.0	9886.1	10016.0	10201.9	10724.2	11786.6	11910.6	12869.7	13403.8	12359.1
32.5°	10151.7	10137.0	10231.4	10381.9	10597.3	11208.2	12317.8	12480.1	13454.0	14094.4	12790.0
35°	10500.0	10488.2	10618.0	10836.4	11146.3	11881.1	12961.2	13138.2	14050.1	14876.4	13362.5
37.5°	10839.3	10839.3	11090.2	11414.8	11804.3	12612.9	13566.1	13678.3	14463.3	15569.9	13976.3
40°	11140.3	11158.1	11535.8	12022.7	12518.5	13274.0	13964.5	14059.0	14646.2	16048.0	14510.5
42.5°	11473.8	11488.6	11928.3	12565.7	13155.9	13808.1	14206.5	14253.7	14681.7	16287.0	14888.2
45°	11739.4	11760.1	12306.0	12987.7	13710.7	14209.5	14398.3	14439.7	14731.8	16416.9	15162.7
47.5°	11878.1	11907.6	12533.3	13327.1	14085.5	14569.5	14714.1	14731.8	14938.4	16644.1	15493.2
50°	11854.5	11913.5	12618.8	13495.3	14362.9	14932.5	15221.7	15251.2	15360.4	16977.6	15879.8
52.5°	12064.0	12090.6	12801.8	13696.0	14758.4	15602.4	16104.1	16145.4	16095.2	17228.4	16110.0
55°	11715.8	11842.7	12574.6	13666.5	15360.4	16638.2	17411.4	17390.7	16762.2	17508.8	16493.6
57.5°	9475.9	9661.9	10331.8	11600.7	14368.8	17364.2	18388.2	18338.0	17278.6	17724.2	16909.7
60°	6560.3	6589.8	7194.7	8094.8	11090.2	15339.7	18102.0	18211.2	17373.0	17452.7	16139.5
62.5°	5247.0	5238.2	5294.2	5317.9	7053.1	10783.3	14289.2	14687.6	14433.8	13598.6	11438.4
65°	4479.7	4512.2	4677.5	4591.9	4603.7	6073.3	8537.5	8593.6	8416.5	8115.5	6049.7
67.5°	3505.9	3562.0	3854.1	4187.6	4081.4	3910.2	4429.6	4403.0	3470.5	2685.5	2219.2
70°	2195.6	2231.0	2543.8	3287.5	3553.1	3210.8	2847.8	2836.0	1859.2	1528.7	1676.2
72.5°	1280.8	1286.7	1375.2	1832.6	2357.9	2195.6	2095.3	2018.5	1195.2	1218.8	1336.8
75°	705.3	705.3	702.4	790.9	929.6	823.4	796.8	776.1	799.7	906.0	994.5
77.5°	147.6	150.5	159.4	209.5	271.5	330.5	416.1	419.1	522.3	605.0	675.8
80°	67.9	70.8	88.5	112.1	144.6	191.8	253.8	256.7	315.8	380.7	427.9
82.5°	35.4	38.4	47.2	59.0	76.7	100.3	141.7	141.7	188.9	224.3	253.8
85°	11.8	11.8	17.7	23.6	32.5	41.3	56.1	56.1	82.6	109.2	126.9
87.5°	0.0	0.0	0.0	0.0	3.0	5.9	11.8	11.8	14.8	17.7	29.5
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°	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6	13235.6
2.5°	13176.6	13085.1	13088.1	13105.8	13049.7	12964.1	12908.0	12837.2	12793.0	12784.1	12816.6
5°	12987.7	12881.5	12807.7	12731.0	12571.6	12382.8	12235.2	12114.2	12034.5	12005.0	11969.6
7.5°	12728.0	12589.3	12403.4	12188.0	11898.8	11562.4	11326.3	11104.9	10951.5	10907.2	10886.6
10°	12468.3	12267.7	11937.1	11535.8	11054.8	10600.3	10172.4	9844.8	9585.1	9437.6	9484.8
12.5°	12199.8	11951.9	11435.5	10818.7	10148.8	9464.1	8903.4	8360.4	7941.4	7731.8	7669.9
15°	11963.7	11627.3	10907.2	10072.1	9180.8	8319.1	7507.6	6693.1	6161.9	5872.7	5793.0
17.5°	11763.0	11326.3	10349.5	9310.7	8245.3	7017.7	6020.2	5264.7	4901.8	4742.4	4730.6
20°	11565.3	11031.2	9797.6	8490.3	7165.2	5790.0	4898.8	4544.7	4414.8	4358.8	4355.8
22.5°	11388.2	10721.3	9216.2	7669.9	6091.0	4866.3	4376.5	4223.0	4187.6	4187.6	4181.7
25°	11237.7	10411.4	8620.1	6799.3	5120.1	4332.2	4105.0	4040.0	4054.8	4081.4	4084.3
27.5°	11175.8	10169.4	8044.7	5905.1	4450.2	4022.3	3919.0	3910.2	3951.5	3992.8	3998.7
30°	11240.7	10004.2	7454.4	5049.3	4048.9	3833.5	3786.2	3803.9	3854.1	3895.4	3895.4
32.5°	11441.4	9921.6	6852.4	4423.7	3815.8	3700.7	3685.9	3703.6	3742.0	3765.6	3768.5
35°	11780.7	9954.0	6229.7	4001.7	3665.2	3603.3	3600.3	3612.1	3626.9	3641.6	3644.6
37.5°	12208.6	10098.6	5562.8	3756.7	3567.9	3532.4	3526.5	3523.6	3526.5	3526.5	3529.5
40°	12627.7	10317.0	4966.7	3612.1	3500.0	3470.5	3455.7	3435.1	3432.1	3426.2	3423.3
42.5°	12937.6	10485.2	4491.6	3508.8	3438.0	3402.6	3384.9	3352.4	3349.5	3346.5	3343.6
45°	13170.7	10626.9	4096.1	3408.5	3373.1	3340.6	3302.3	3272.8	3278.7	3284.6	3284.6
47.5°	13433.3	10750.8	3806.9	3314.1	3293.4	3260.9	3213.7	3193.1	3213.7	3234.4	3234.4
50°	13752.1	10924.9	3570.8	3219.6	3210.8	3172.4	3131.1	3122.2	3145.9	3175.4	3175.4
52.5°	13985.2	11075.4	3402.6	3125.2	3125.2	3075.0	3039.6	3036.7	3063.2	3092.7	3095.7
55°	14422.0	11426.6	3343.6	3016.0	3004.2	2965.8	2939.3	2918.6	2951.1	2977.6	2977.6
57.5°	14914.8	11892.9	3358.3	2859.6	2844.8	2833.0	2812.4	2788.8	2797.6	2827.1	2830.1
60°	13870.1	10989.8	3196.0	2703.2	2694.3	2688.4	2661.9	2620.6	2632.4	2656.0	2658.9
62.5°	9688.4	7303.9	2585.2	2508.4	2537.9	2535.0	2499.6	2452.4	2455.3	2487.8	2487.8
65°	5028.7	3951.5	2269.4	2331.4	2375.6	2357.9	2298.9	2257.6	2251.7	2293.0	2284.1
67.5°	2169.0	2157.2	2065.8	2145.4	2192.7	2154.3	2092.3	2024.4	2030.3	2045.1	2033.3
70°	1747.0	1800.2	1838.5	1924.1	1962.5	1891.6	1823.8	1785.4	1752.9	1750.0	1729.3
72.5°	1395.9	1469.6	1555.2	1643.8	1655.6	1584.7	1499.2	1463.7	1413.6	1410.6	1390.0
75°	1050.6	1112.6	1180.4	1251.3	1251.3	1183.4	1127.3	1109.6	1050.6	1032.9	1015.2
77.5°	717.1	755.5	808.6	826.3	844.0	817.5	761.4	731.9	664.0	646.3	622.7
80°	451.5	478.1	510.5	522.3	540.0	507.6	463.3	430.9	383.6	368.9	357.1
82.5°	271.5	289.2	309.9	315.8	330.5	306.9	265.6	242.0	215.4	203.6	194.8
85°	138.7	147.6	159.4	162.3	159.4	135.7	121.0	109.2	91.5	88.5	82.6
87.5°	35.4	41.3	44.3	41.3	38.4	29.5	20.7	14.8	5.9	5.9	3.0
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)