

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: P640784

Luminaire Tested: GWS-SA5E-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640784
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-SA5E-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32158.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

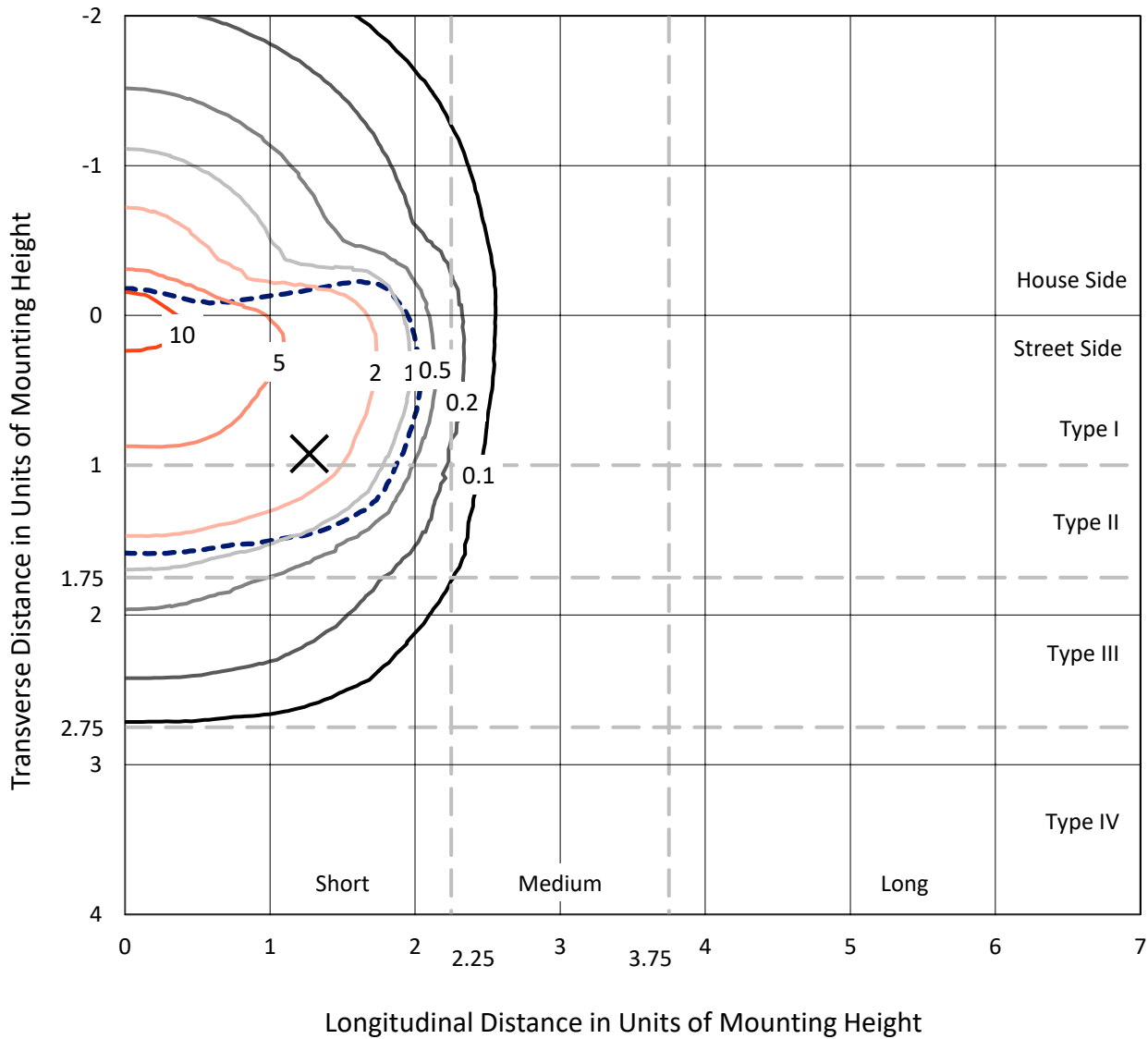
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

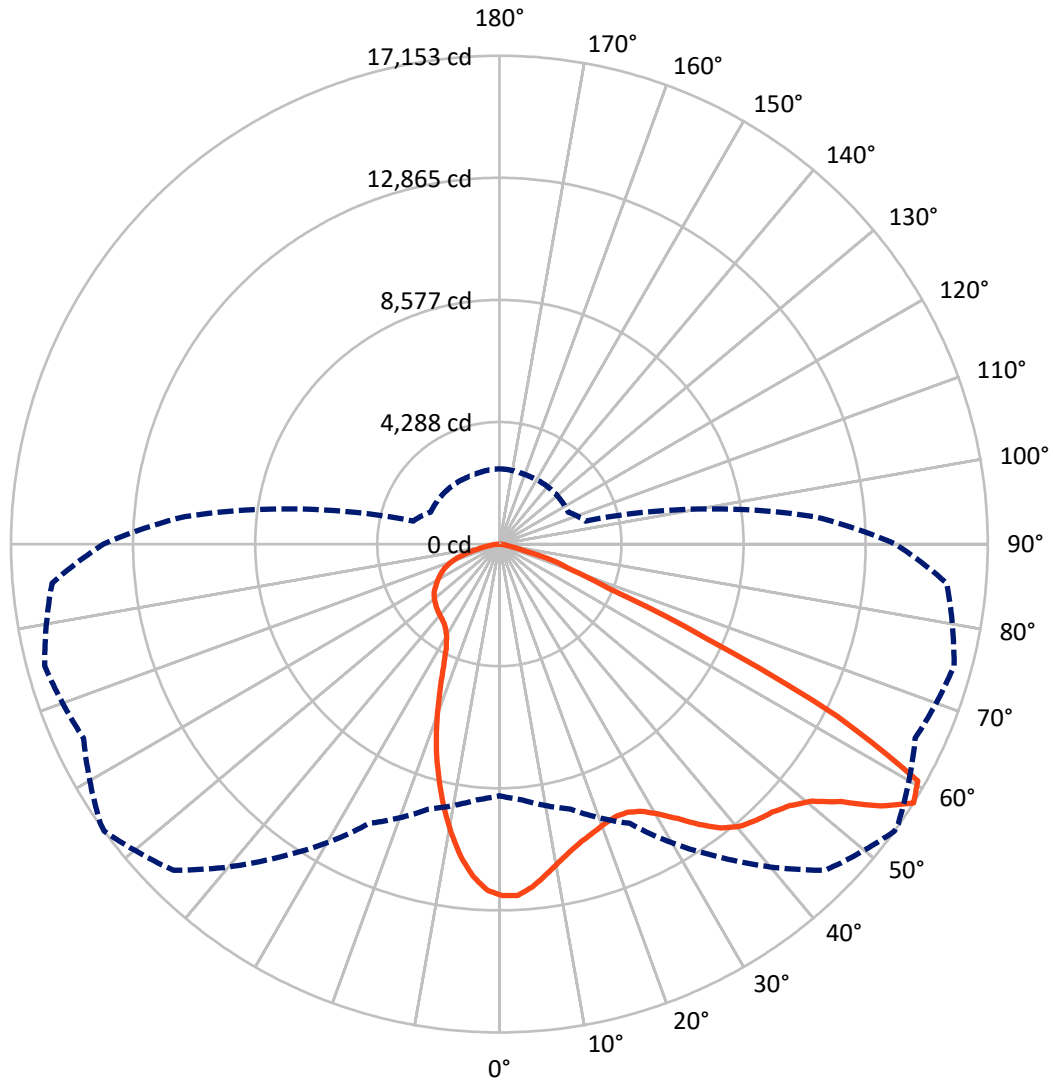
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 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	9348.9	0.0	9348.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	22809.9	0.0	22809.9
	% Fixture	70.9	0.0	70.9
Total	Lumens	32158.8	0.0	32158.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.2	3.4
10°-20°	2589.5	8.1
20°-30°	3583.5	11.1
30°-40°	4979.3	15.5
40°-50°	6576.1	20.4
50°-60°	7814.8	24.3
60°-70°	4329.5	13.5
70°-80°	1078.1	3.4
80°-90°	122.6	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°	32158.8	100.0
0°-180°	32158.8	100.0

Coefficient of Utilization



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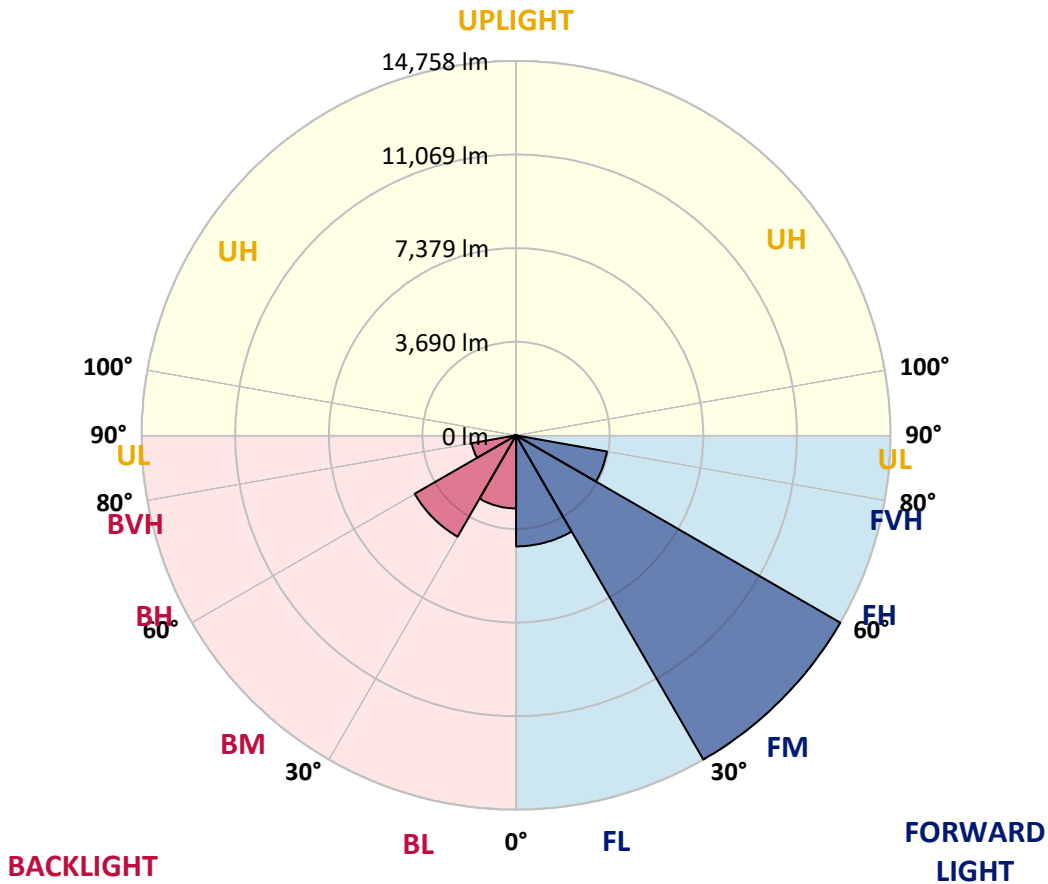
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4377.3	13.6			
FM (30°-60°)	14758.2	45.9			
FH (60°-80°)	3636.0	11.3			G2/5000
FVH (80°-90°)	38.4	0.1			G1/100
BL (0°-30°)	2881.0	9.0	B4/5000		
BM (30°-60°)	4612.1	14.3	B3/5000		
BH (60°-80°)	1771.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	84.2	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°	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5
2.5°	12115.3	12140.0	12156.5	12214.4	12263.9	12308.0	12354.8	12354.8	12352.0	12343.7	12327.2
5°	11636.3	11663.8	11702.3	11782.2	11889.5	11966.6	12093.2	12104.2	12159.3	12181.3	12170.3
7.5°	11080.2	11088.4	11138.0	11242.6	11413.3	11550.9	11732.6	11754.6	11886.8	11963.8	11950.1
10°	10471.8	10444.3	10532.4	10686.5	10909.5	11140.7	11374.7	11394.0	11606.0	11751.9	11740.9
12.5°	9915.7	9918.5	10006.6	10193.8	10471.8	10758.1	11071.9	11116.0	11377.5	11564.7	11545.4
15°	9450.5	9461.5	9568.9	9780.8	10097.4	10438.8	10829.7	10871.0	11201.3	11449.1	11394.0
17.5°	9078.9	9089.9	9183.5	9425.7	9764.3	10177.3	10653.5	10694.8	11105.0	11399.5	11286.6
20°	8822.9	8817.4	8908.2	9139.4	9489.0	9937.8	10499.3	10559.9	11074.7	11418.8	11215.1
22.5°	8718.2	8715.5	8781.6	8971.5	9299.1	9753.3	10405.7	10488.3	11107.7	11504.1	11171.0
25°	8770.6	8759.5	8817.4	8957.7	9219.3	9681.7	10433.3	10521.4	11248.1	11680.3	11179.3
27.5°	8933.0	8919.2	8968.8	9095.4	9293.6	9756.1	10626.0	10727.8	11545.4	12002.4	11289.4
30°	9180.7	9172.5	9222.0	9343.1	9516.6	10003.8	10994.8	11110.5	12005.1	12503.4	11528.9
32.5°	9469.8	9456.0	9544.1	9684.5	9885.5	10455.3	11490.4	11641.8	12550.2	13147.6	11930.8
35°	9794.6	9783.6	9904.7	10108.4	10397.5	11082.9	12090.5	12255.6	13106.3	13877.1	12464.9
37.5°	10111.2	10111.2	10345.2	10648.0	11011.4	11765.6	12654.8	12759.4	13491.7	14524.0	13037.5
40°	10392.0	10408.5	10760.9	11215.1	11677.6	12382.3	13026.4	13114.5	13662.4	14970.0	13535.7
42.5°	10703.0	10716.8	11127.0	11721.6	12272.2	12880.5	13252.2	13296.2	13695.4	15192.9	13888.1
45°	10950.8	10970.1	11479.3	12115.3	12789.7	13254.9	13431.1	13469.7	13742.2	15314.1	14144.1
47.5°	11080.2	11107.7	11691.3	12431.8	13139.3	13590.8	13725.7	13742.2	13934.9	15526.0	14452.4
50°	11058.2	11113.2	11771.1	12588.7	13398.1	13929.4	14199.2	14226.7	14328.5	15837.1	14813.0
52.5°	11253.6	11278.4	11941.8	12775.9	13767.0	14554.3	15022.3	15060.8	15014.0	16071.1	15027.8
55°	10928.8	11047.2	11729.9	12748.4	14328.5	15520.5	16241.8	16222.5	15636.1	16332.6	15385.6
57.5°	8839.4	9012.8	9637.7	10821.4	13403.6	16197.7	17153.0	17106.2	16117.9	16533.6	15773.8
60°	6119.6	6147.1	6711.4	7551.0	10345.2	14309.3	16885.9	16987.8	16206.0	16280.3	15055.3
62.5°	4894.6	4886.3	4938.6	4960.6	6579.3	10058.9	13329.3	13700.9	13464.1	12685.1	10670.0
65°	4178.8	4209.1	4363.3	4283.4	4294.4	5665.3	7964.0	8016.3	7851.1	7570.3	5643.3
67.5°	3270.4	3322.7	3595.2	3906.3	3807.2	3647.5	4132.0	4107.2	3237.3	2505.1	2070.1
70°	2048.1	2081.1	2372.9	3066.7	3314.4	2995.1	2656.5	2645.5	1734.3	1426.0	1563.6
72.5°	1194.7	1200.2	1282.8	1709.5	2199.5	2048.1	1954.5	1882.9	1114.9	1136.9	1247.0
75°	657.9	657.9	655.2	737.8	867.1	768.0	743.3	724.0	746.0	845.1	927.7
77.5°	137.6	140.4	148.7	195.5	253.3	308.3	388.2	390.9	487.3	564.3	630.4
80°	63.3	66.1	82.6	104.6	134.9	178.9	236.7	239.5	294.6	355.1	399.2
82.5°	33.0	35.8	44.0	55.1	71.6	93.6	132.1	132.1	176.2	209.2	236.7
85°	11.0	11.0	16.5	22.0	30.3	38.5	52.3	52.3	77.1	101.9	118.4
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	11.0	11.0	13.8	16.5	27.5
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°	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5	12346.5
2.5°	12291.4	12206.1	12208.9	12225.4	12173.1	12093.2	12040.9	11974.9	11933.6	11925.3	11955.6
5°	12115.3	12016.2	11947.3	11875.8	11727.1	11550.9	11413.3	11300.4	11226.1	11198.6	11165.5
7.5°	11873.0	11743.6	11570.2	11369.2	11099.5	10785.6	10565.4	10358.9	10215.8	10174.5	10155.2
10°	11630.8	11443.6	11135.2	10760.9	10312.1	9888.2	9489.0	9183.5	8941.2	8803.6	8847.6
12.5°	11380.2	11149.0	10667.3	10091.9	9467.0	8828.4	8305.3	7798.8	7407.9	7212.4	7154.6
15°	11160.0	10846.2	10174.5	9395.4	8564.1	7760.3	7003.2	6243.4	5747.9	5478.2	5403.8
17.5°	10972.8	10565.4	9654.2	8685.2	7691.4	6546.3	5615.8	4911.1	4572.5	4423.8	4412.8
20°	10788.4	10290.1	9139.4	7919.9	6683.9	5401.1	4569.7	4239.4	4118.3	4065.9	4063.2
22.5°	10623.2	10001.1	8597.1	7154.6	5681.9	4539.4	4082.5	3939.3	3906.3	3906.3	3900.8
25°	10482.8	9712.0	8041.0	6342.5	4776.2	4041.2	3829.2	3768.6	3782.4	3807.2	3809.9
27.5°	10425.0	9486.3	7504.2	5508.4	4151.3	3752.1	3655.8	3647.5	3686.1	3724.6	3730.1
30°	10485.6	9332.1	6953.7	4710.1	3776.9	3575.9	3531.9	3548.4	3595.2	3633.8	3633.8
32.5°	10672.8	9255.1	6392.1	4126.5	3559.4	3452.1	3438.3	3454.8	3490.6	3512.6	3515.4
35°	10989.3	9285.3	5811.2	3732.9	3419.0	3361.2	3358.5	3369.5	3383.2	3397.0	3399.8
37.5°	11388.5	9420.2	5189.1	3504.4	3328.2	3295.2	3289.6	3286.9	3289.6	3289.6	3292.4
40°	11779.4	9623.9	4633.0	3369.5	3264.9	3237.3	3223.6	3204.3	3201.6	3196.0	3193.3
42.5°	12068.5	9780.8	4189.8	3273.1	3207.1	3174.0	3157.5	3127.2	3124.5	3121.7	3119.0
45°	12285.9	9913.0	3820.9	3179.5	3146.5	3116.2	3080.4	3052.9	3058.4	3063.9	3063.9
47.5°	12530.9	10028.6	3551.2	3091.4	3072.2	3041.9	2997.8	2978.6	2997.8	3017.1	3017.1
50°	12828.2	10191.0	3330.9	3003.3	2995.1	2959.3	2920.8	2912.5	2934.5	2962.1	2962.1
52.5°	13045.7	10331.4	3174.0	2915.3	2915.3	2868.5	2835.4	2832.7	2857.4	2885.0	2887.7
55°	13453.1	10659.0	3119.0	2813.4	2802.4	2766.6	2741.8	2722.6	2752.8	2777.6	2777.6
57.5°	13912.9	11094.0	3132.7	2667.5	2653.7	2642.7	2623.5	2601.4	2609.7	2637.2	2640.0
60°	12938.4	10251.6	2981.3	2521.6	2513.3	2507.8	2483.1	2444.5	2455.5	2477.6	2480.3
62.5°	9037.6	6813.3	2411.5	2339.9	2367.4	2364.7	2331.7	2287.6	2290.4	2320.6	2320.6
65°	4690.8	3686.1	2116.9	2174.7	2216.0	2199.5	2144.5	2105.9	2100.4	2139.0	2130.7
67.5°	2023.3	2012.3	1927.0	2001.3	2045.4	2009.6	1951.8	1888.4	1894.0	1907.7	1896.7
70°	1629.7	1679.2	1715.0	1794.9	1830.6	1764.6	1701.3	1665.5	1635.2	1632.4	1613.2
72.5°	1302.1	1370.9	1450.7	1533.3	1544.3	1478.3	1398.4	1365.4	1318.6	1315.9	1296.6
75°	980.0	1037.8	1101.1	1167.2	1167.2	1103.9	1051.6	1035.1	980.0	963.5	947.0
77.5°	668.9	704.7	754.3	770.8	787.3	762.5	710.2	682.7	619.4	602.9	580.8
80°	421.2	446.0	476.2	487.3	503.8	473.5	432.2	401.9	357.9	344.1	333.1
82.5°	253.3	269.8	289.0	294.6	308.3	286.3	247.8	225.7	201.0	189.9	181.7
85°	129.4	137.6	148.7	151.4	148.7	126.6	112.9	101.9	85.3	82.6	77.1
87.5°	33.0	38.5	41.3	38.5	35.8	27.5	19.3	13.8	5.5	5.5	2.8
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)