

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: P640862

Luminaire Tested: GWS-SA5E-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640862
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-SA5E-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32326.2 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

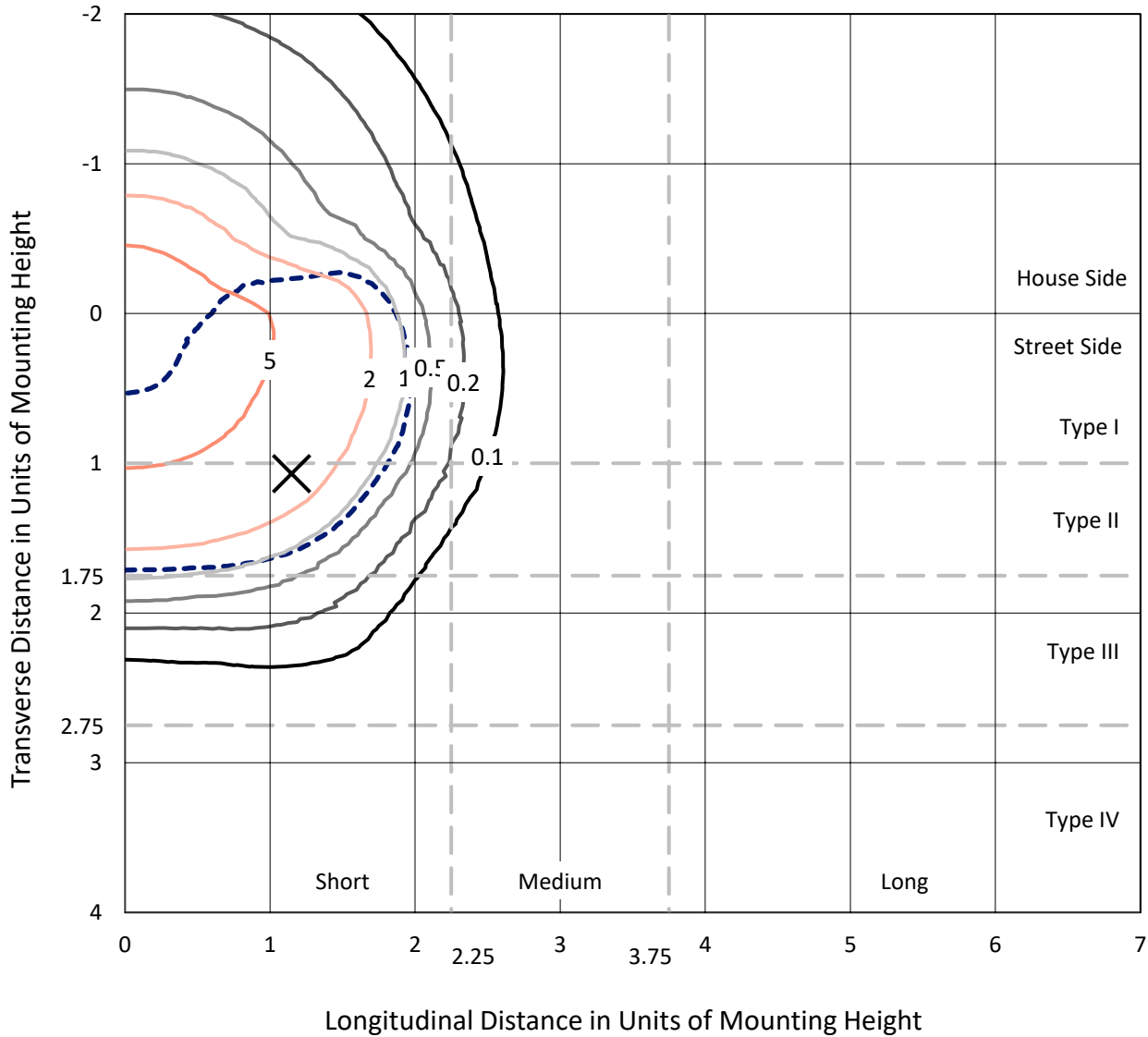
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

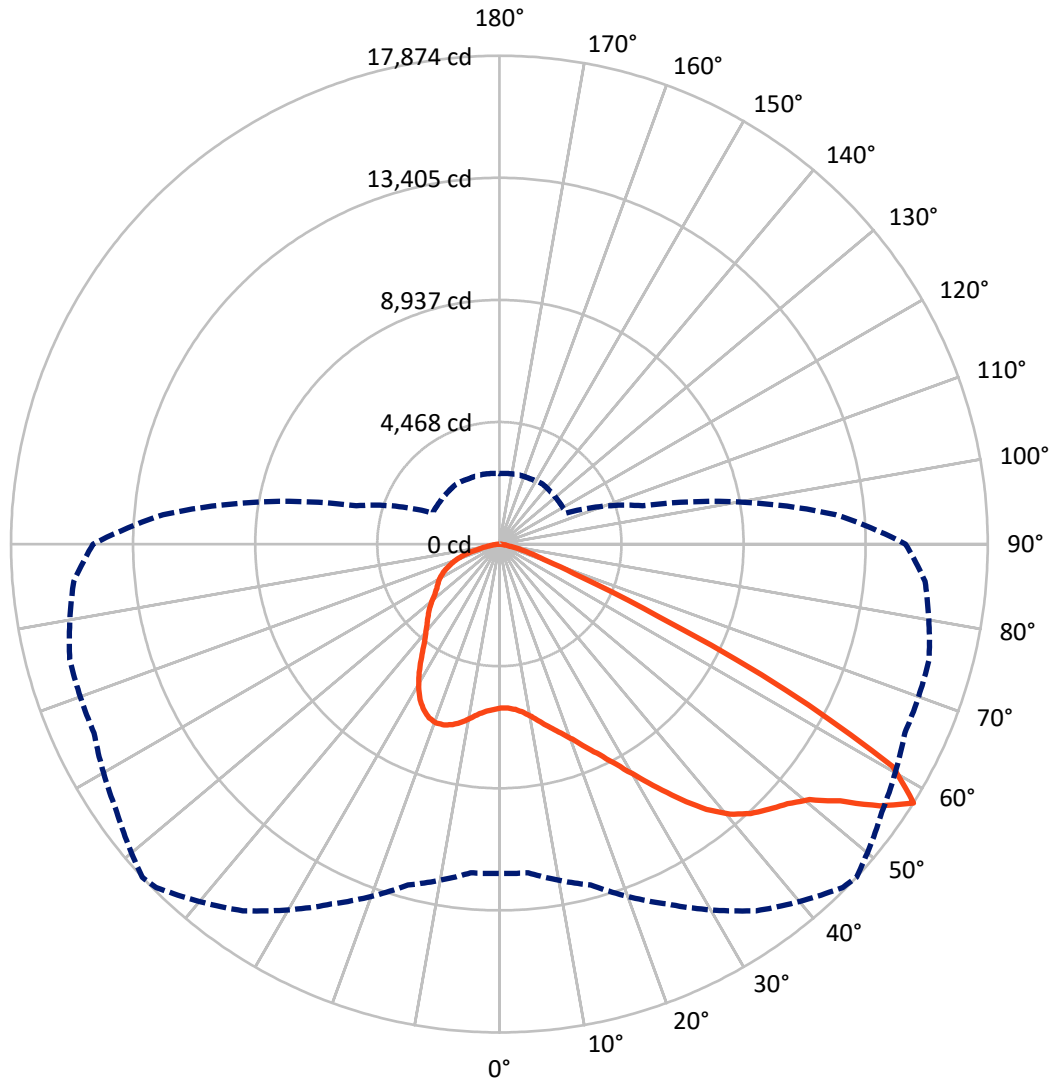
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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	10231.2	0.0	10231.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	22095.0	0.0	22095.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	32326.2	0.0	32326.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.3	1.8
10°-20°	1944.8	6.0
20°-30°	3501.8	10.8
30°-40°	5289.1	16.4
40°-50°	7122.4	22.0
50°-60°	8558.5	26.5
60°-70°	4168.1	12.9
70°-80°	1026.9	3.2
80°-90°	123.4	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°	32326.2	100.0
0°-180°	32326.2	100.0

Coefficient of Utilization



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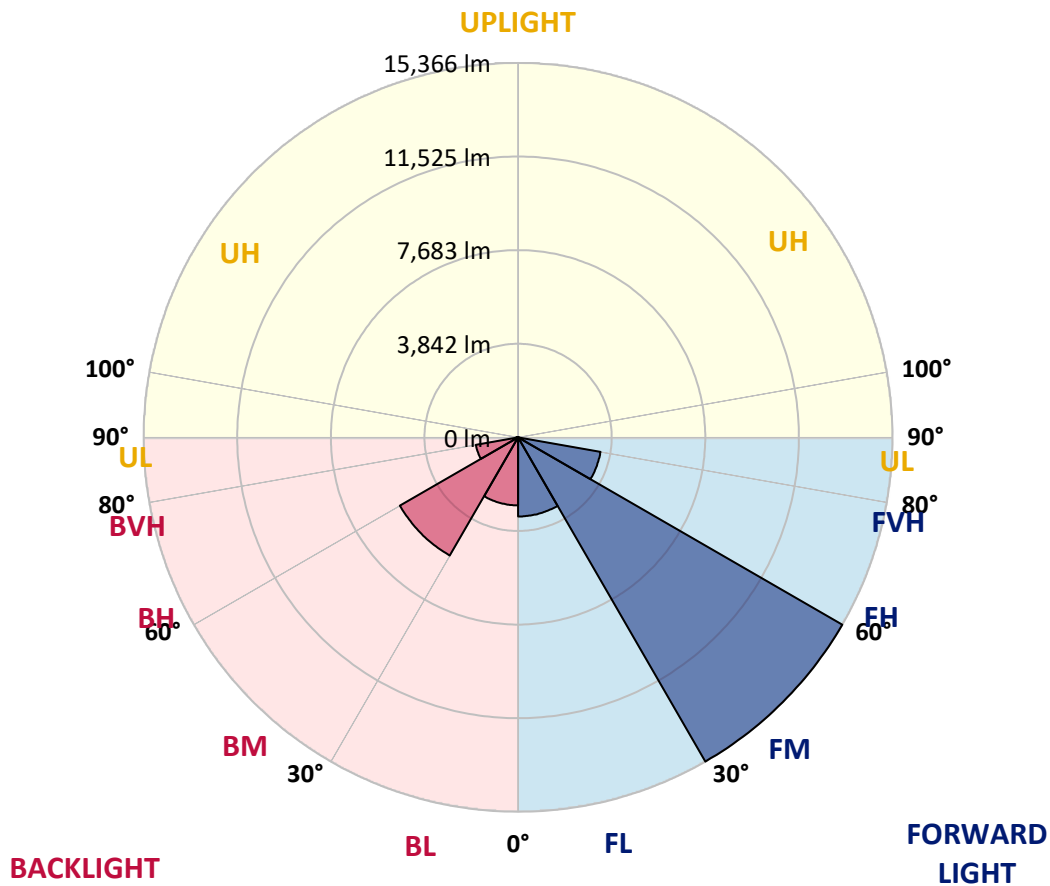
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3247.0	10.0			
FM (30°-60°)	15366.3	47.5			
FH (60°-80°)	3435.3	10.6			G2/5000
FVH (80°-90°)	46.4	0.1			G1/100
BL (0°-30°)	2790.9	8.6	B4/5000		
BM (30°-60°)	5603.6	17.3	B4/8500		
BH (60°-80°)	1759.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	77.0	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°	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9
2.5°	5984.1	5981.4	5981.4	5997.7	5997.7	6003.1	6011.2	6019.4	6022.1	6008.5	5978.6
5°	6049.2	6049.2	6049.2	6062.8	6062.8	6068.2	6079.1	6081.8	6079.1	6057.4	6027.5
7.5°	6152.4	6152.4	6155.1	6171.4	6185.0	6193.1	6212.1	6209.4	6201.3	6166.0	6128.0
10°	6320.8	6328.9	6337.0	6356.0	6383.2	6402.2	6415.8	6415.8	6404.9	6350.6	6301.7
12.5°	6559.7	6570.5	6578.7	6595.0	6616.7	6649.3	6679.1	6679.1	6665.6	6597.7	6524.4
15°	6839.3	6850.2	6847.5	6852.9	6893.6	6939.8	6964.2	6980.5	6986.0	6890.9	6776.9
17.5°	7159.7	7170.6	7159.7	7143.4	7148.9	7222.2	7265.6	7325.3	7360.6	7233.0	7051.1
20°	7450.2	7439.4	7439.4	7450.2	7466.5	7556.1	7621.3	7719.0	7762.5	7607.7	7325.3
22.5°	7757.0	7781.5	7770.6	7770.6	7835.8	7985.1	8063.8	8191.5	8237.6	8036.7	7656.6
25°	8153.4	8175.2	8169.7	8175.2	8251.2	8463.0	8541.7	8777.9	8824.1	8536.3	8023.1
27.5°	8587.9	8623.2	8639.4	8634.0	8756.2	9033.1	9130.9	9459.4	9543.6	9095.6	8414.1
30°	9152.6	9190.6	9204.2	9198.8	9342.7	9720.1	9831.4	10206.1	10325.5	9758.1	8911.0
32.5°	9806.9	9845.0	9885.7	9902.0	10086.6	10472.1	10632.3	11020.6	11191.6	10523.7	9511.0
35°	10455.8	10488.4	10567.2	10694.8	10947.3	11341.0	11482.2	11865.0	12030.6	11319.3	10235.9
37.5°	11172.6	11194.4	11262.2	11438.7	11802.5	12177.2	12318.4	12684.9	12704.0	12087.6	11055.9
40°	11957.3	11957.3	11943.7	12117.5	12497.6	12875.0	12997.2	13209.0	13097.6	12679.5	11854.1
42.5°	12622.5	12611.6	12622.5	12785.4	13067.8	13374.6	13480.5	13439.7	13298.6	13132.9	12576.3
45°	13222.5	13230.7	13328.4	13453.3	13599.9	13781.8	13844.3	13613.5	13485.9	13496.8	13154.7
47.5°	13629.8	13637.9	13866.0	14075.1	14164.7	14221.7	14194.5	13874.2	13809.0	13931.2	13599.9
50°	13684.1	13727.5	14121.2	14550.2	14772.9	14781.0	14705.0	14314.0	14295.0	14433.5	13838.9
52.5°	13695.0	13738.4	14229.8	15003.6	15582.0	15704.1	15617.3	15210.0	15011.8	14873.3	14132.1
55°	13654.2	13703.1	14246.1	15307.7	16415.5	16904.2	16912.4	16336.8	15704.1	15611.8	14968.3
57.5°	12055.0	12074.0	12915.7	14533.9	16382.9	17767.6	17873.5	17091.6	16369.3	16282.5	15639.0
60°	8397.8	8473.8	9388.8	11525.6	13762.8	16203.7	16545.8	16317.8	15834.5	15201.8	13418.0
62.5°	4205.7	4270.9	5188.6	7208.6	9492.0	11419.7	11786.2	12027.9	12141.9	11463.2	9136.3
65°	1811.0	1859.8	2430.0	3765.8	5373.2	6304.5	6432.1	6722.6	7433.9	6633.0	4922.5
67.5°	1210.9	1243.5	1534.0	2297.0	3165.8	3225.5	3206.5	3269.0	3423.7	2826.4	2223.7
70°	928.6	955.7	1151.2	1683.4	2275.3	1946.7	1843.6	1672.5	1816.4	1851.7	1802.8
72.5°	673.3	695.1	841.7	1148.5	1425.4	1243.5	1227.2	1314.1	1509.6	1563.9	1534.0
75°	434.4	445.3	534.9	629.9	735.8	798.2	830.8	988.3	1186.5	1227.2	1191.9
77.5°	290.5	298.7	350.2	404.5	418.1	420.8	431.7	502.3	638.0	714.1	705.9
80°	152.0	152.0	171.1	171.1	195.5	233.5	244.4	290.5	353.0	391.0	393.7
82.5°	59.7	62.4	73.3	81.5	97.7	119.5	127.6	152.0	184.6	211.8	236.2
85°	24.4	27.2	29.9	35.3	43.4	54.3	57.0	65.2	86.9	108.6	122.2
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	8.1	10.9	13.6	24.4	32.6
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°	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9	5994.9
2.5°	6013.9	5978.6	6013.9	6024.8	6054.7	6065.5	6046.5	6043.8	6043.8	6016.7	6008.5
5°	6054.7	6022.1	6057.4	6073.7	6117.1	6144.3	6149.7	6171.4	6185.0	6174.1	6171.4
7.5°	6155.1	6114.4	6152.4	6176.9	6233.9	6277.3	6296.3	6345.2	6380.5	6375.1	6372.3
10°	6331.6	6277.3	6320.8	6361.5	6423.9	6475.5	6478.2	6505.4	6540.7	6529.8	6524.4
12.5°	6535.2	6483.7	6532.5	6573.3	6646.6	6668.3	6633.0	6622.1	6627.6	6614.0	6603.1
15°	6785.0	6711.7	6755.2	6801.3	6842.1	6817.6	6741.6	6711.7	6709.0	6690.0	6679.1
17.5°	7034.8	6942.5	6975.1	6999.5	6980.5	6904.5	6809.5	6757.9	6733.4	6695.4	6684.6
20°	7281.9	7165.1	7159.7	7140.7	7053.8	6915.4	6787.7	6684.6	6622.1	6570.5	6551.5
22.5°	7564.3	7401.4	7319.9	7233.0	7043.0	6817.6	6624.8	6478.2	6377.8	6312.6	6290.9
25°	7868.4	7637.6	7469.2	7295.5	6934.4	6608.6	6339.8	6138.8	6019.4	5948.8	5924.3
27.5°	8169.7	7852.1	7599.6	7303.6	6717.2	6307.2	5946.1	5674.6	5555.1	5498.1	5479.1
30°	8577.0	8137.2	7754.3	7197.7	6432.1	5889.1	5438.3	5164.1	5085.4	5044.7	5028.4
32.5°	9046.7	8498.3	7960.7	6975.1	6068.2	5400.3	4925.2	4735.1	4680.8	4602.1	4599.4
35°	9665.8	9014.1	8156.2	6646.6	5609.4	4876.3	4531.5	4395.7	4298.0	4173.1	4162.2
37.5°	10388.0	9657.6	8262.0	6228.4	5074.5	4444.6	4238.3	4086.2	3928.7	3763.1	3741.4
40°	11134.6	10409.7	8270.2	5734.3	4550.5	4159.5	3985.8	3787.6	3592.1	3407.5	3383.0
42.5°	11919.3	11110.2	8126.3	5164.1	4121.5	3912.5	3736.0	3486.2	3266.3	3141.4	3127.8
45°	12619.8	11674.9	7800.5	4564.1	3803.9	3706.1	3480.8	3212.0	3095.2	3005.6	2986.6
47.5°	13170.9	12049.6	7360.6	4026.5	3545.9	3494.3	3201.1	3062.6	2973.0	2891.6	2872.6
50°	13442.5	12133.8	6787.7	3589.4	3307.0	3244.5	3043.6	2937.7	2878.0	2812.8	2796.6
52.5°	13779.1	12228.8	6293.6	3222.8	3073.5	2989.3	2913.3	2829.1	2785.7	2745.0	2731.4
55°	14552.9	12587.2	6033.0	2929.6	2850.9	2812.8	2802.0	2731.4	2717.8	2690.7	2666.2
57.5°	14867.9	12356.4	5416.6	2690.7	2674.4	2679.8	2707.0	2641.8	2628.2	2595.6	2579.3
60°	11957.3	9339.9	3668.1	2484.3	2527.8	2563.1	2590.2	2525.0	2506.0	2500.6	2478.9
62.5°	7662.0	5745.2	2560.3	2291.5	2356.7	2400.1	2416.4	2354.0	2340.4	2383.9	2386.6
65°	3988.5	3130.5	2077.1	2085.2	2139.5	2204.7	2237.2	2215.5	2210.1	2256.2	2259.0
67.5°	2036.3	1914.1	1811.0	1840.8	1884.3	1968.4	2044.5	2139.5	2172.1	2177.5	2180.2
70°	1734.9	1680.6	1629.1	1648.1	1694.2	1740.4	1813.7	1859.8	1805.5	1792.0	1786.5
72.5°	1477.0	1436.3	1411.9	1433.6	1458.0	1449.9	1428.1	1449.9	1458.0	1460.7	1463.4
75°	1148.5	1118.6	1099.6	1102.3	1102.3	1072.5	1031.7	1007.3	980.2	958.4	958.4
77.5°	703.2	708.6	727.6	724.9	722.2	711.4	670.6	648.9	583.7	564.7	564.7
80°	401.8	410.0	429.0	434.4	434.4	420.8	380.1	355.7	325.8	312.2	309.5
82.5°	244.4	255.2	266.1	271.5	274.2	257.9	222.6	203.6	187.3	173.8	173.8
85°	127.6	133.0	143.9	146.6	138.5	122.2	103.2	95.0	78.7	76.0	76.0
87.5°	35.3	38.0	43.4	35.3	32.6	24.4	13.6	10.9	5.4	2.7	2.7
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)