

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: P643204

Luminaire Tested: GWS-SA6E-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643204
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-SAGE-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37488 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

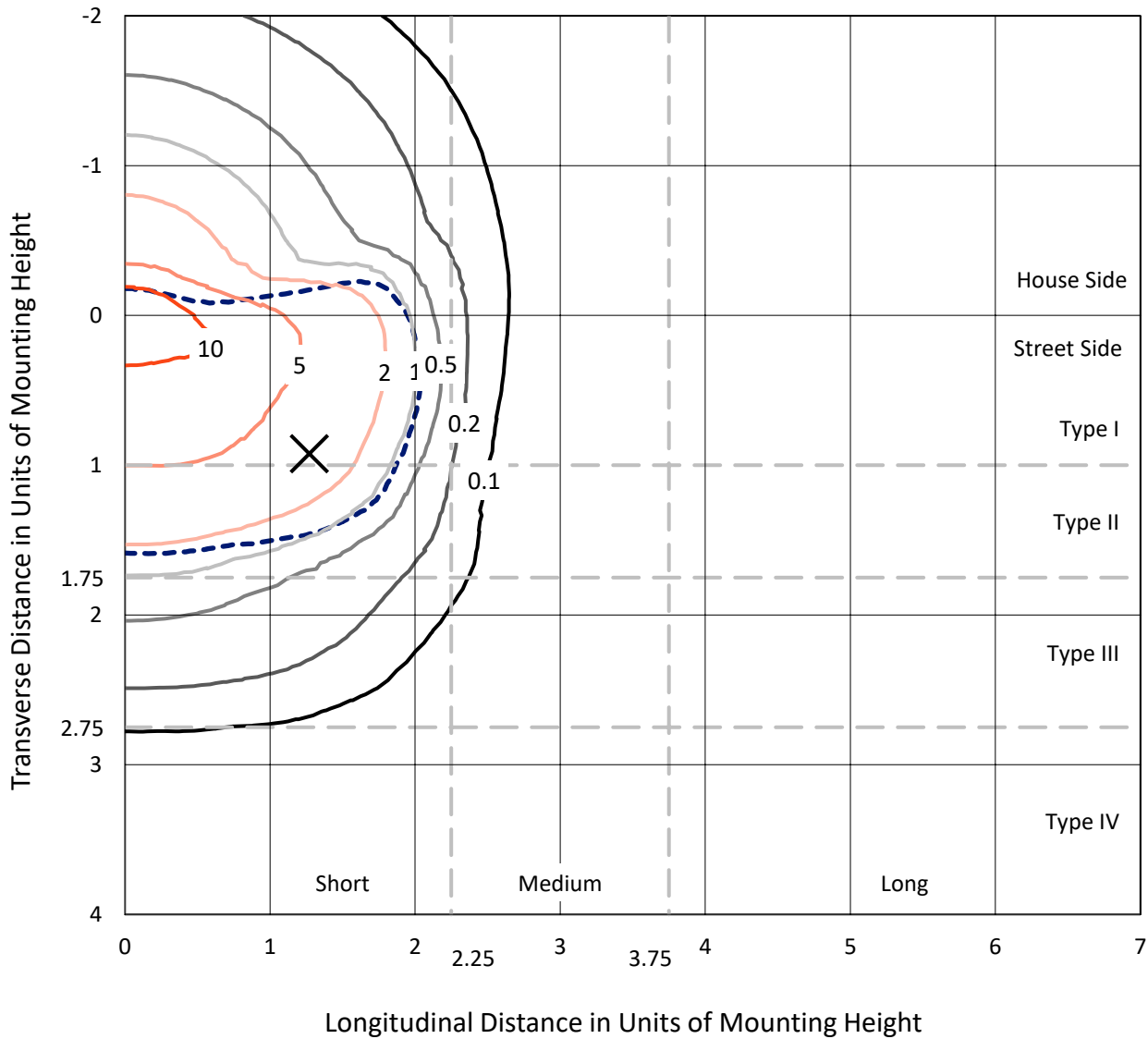
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

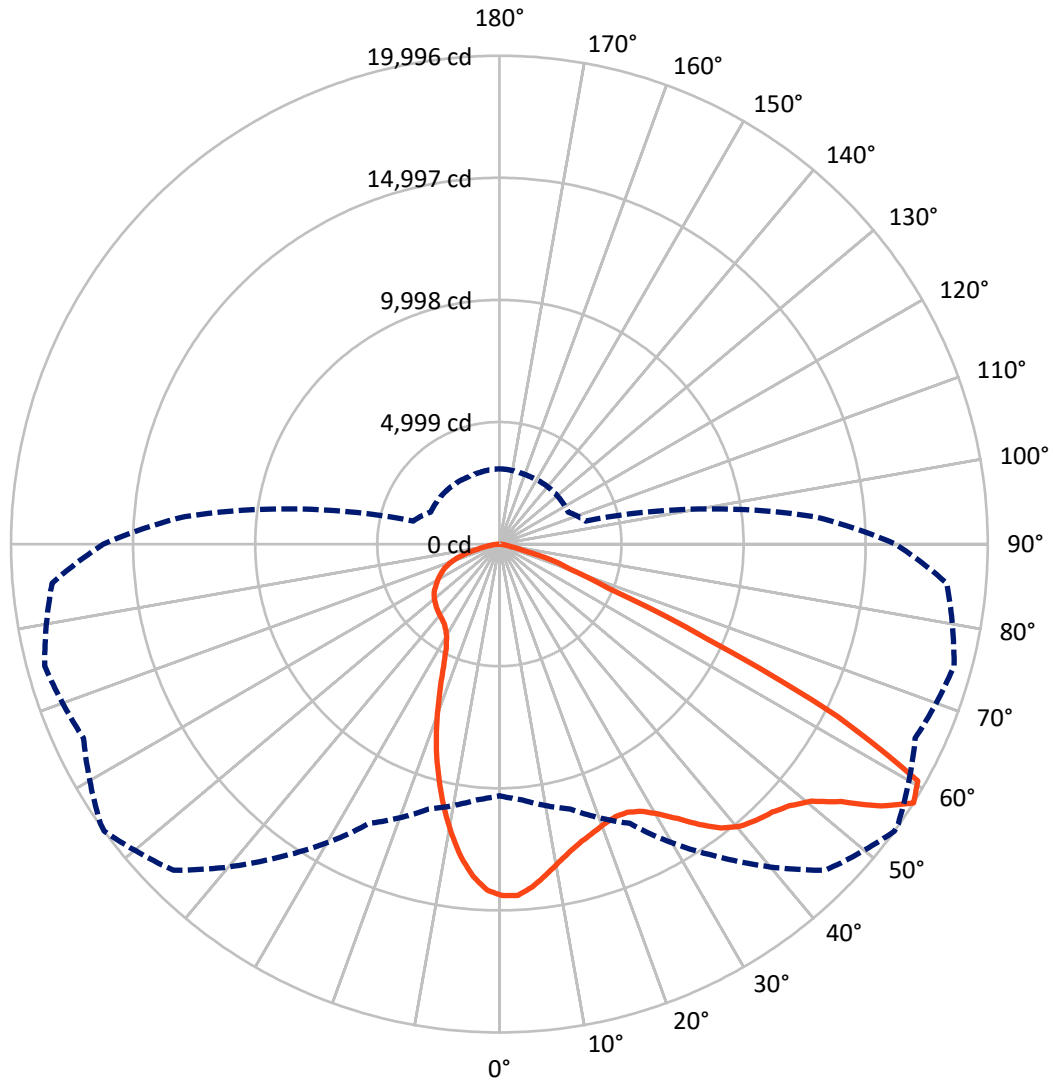
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16 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	10898.2	0.0	10898.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	26589.8	0.0	26589.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	37488.0	0.0	37488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.1	3.4
10°-20°	3018.7	8.1
20°-30°	4177.4	11.1
30°-40°	5804.5	15.5
40°-50°	7665.9	20.4
50°-60°	9109.8	24.3
60°-70°	5047.0	13.5
70°-80°	1256.8	3.4
80°-90°	142.9	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°	37488.0	100.0
0°-180°	37488.0	100.0

Coefficient of Utilization



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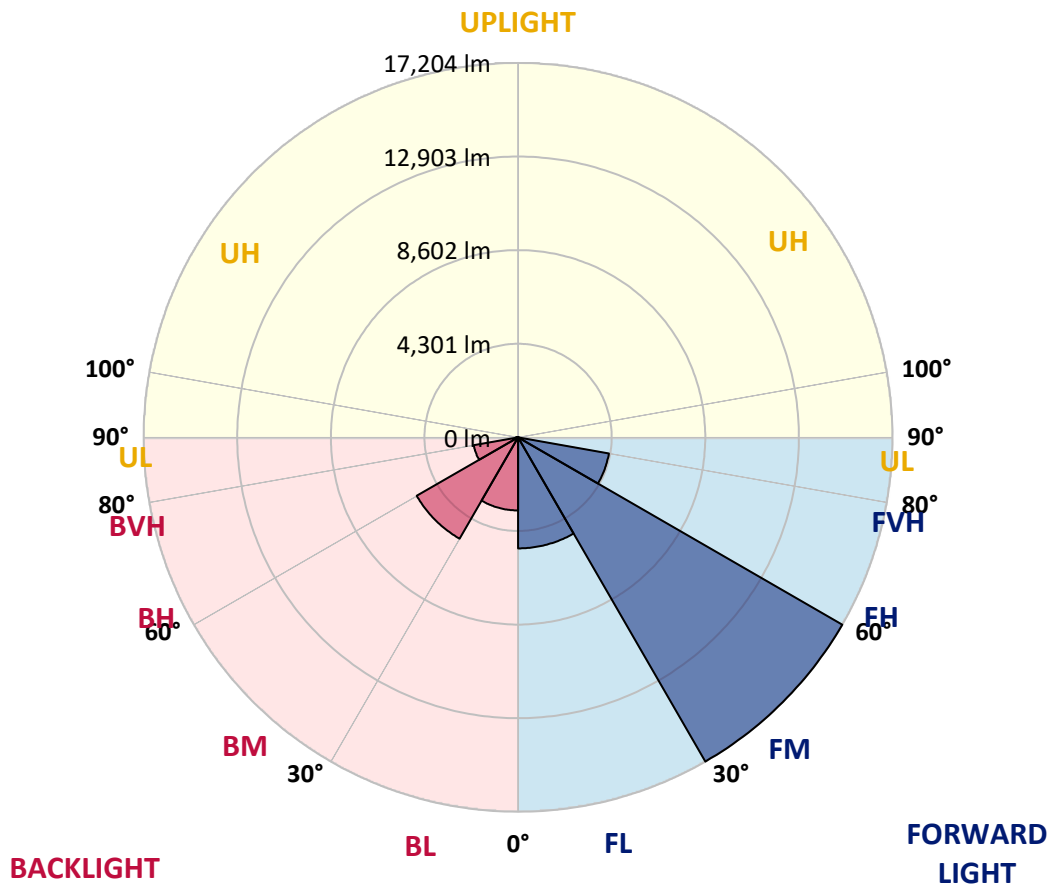
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5102.7	13.6			
FM (30°-60°)	17203.8	45.9			
FH (60°-80°)	4238.5	11.3			G2/5000
FVH (80°-90°)	44.7	0.1			G1/100
BL (0°-30°)	3358.4	9.0	B4/5000		
BM (30°-60°)	5376.3	14.3	B4/8500		
BH (60°-80°)	2065.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	98.2	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°	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5
2.5°	14122.9	14151.8	14171.1	14238.5	14296.2	14347.6	14402.1	14402.1	14398.9	14389.3	14370.0
5°	13564.6	13596.7	13641.6	13734.6	13859.8	13949.6	14097.3	14110.1	14174.3	14200.0	14187.1
7.5°	12916.3	12926.0	12983.7	13105.7	13304.6	13465.1	13676.9	13702.6	13856.6	13946.4	13930.4
10°	12207.1	12175.1	12277.7	12457.5	12717.4	12986.9	13259.7	13282.2	13529.3	13699.3	13686.5
12.5°	11558.9	11562.1	11664.8	11883.0	12207.1	12540.9	12906.7	12958.1	13262.9	13481.1	13458.7
15°	11016.6	11029.4	11154.6	11401.7	11770.7	12168.6	12624.3	12672.5	13057.5	13346.4	13282.2
17.5°	10583.4	10596.2	10705.3	10987.7	11382.4	11863.8	12418.9	12467.1	12945.2	13288.6	13157.0
20°	10284.9	10278.5	10384.4	10654.0	11061.5	11584.6	12239.2	12309.8	12909.9	13311.1	13073.6
22.5°	10163.0	10159.8	10236.8	10458.2	10840.1	11369.6	12130.1	12226.4	12948.4	13410.5	13022.2
25°	10224.0	10211.1	10278.5	10442.2	10747.0	11286.2	12162.2	12264.9	13112.1	13615.9	13031.9
27.5°	10413.3	10397.3	10455.0	10602.6	10833.7	11372.8	12386.9	12505.6	13458.7	13991.4	13160.2
30°	10702.1	10692.5	10750.2	10891.4	11093.6	11661.6	12816.9	12951.6	13994.6	14575.4	13439.4
32.5°	11039.1	11023.0	11125.7	11289.4	11523.6	12187.9	13394.5	13571.0	14630.0	15326.3	13907.9
35°	11417.7	11404.9	11546.1	11783.6	12120.5	12919.6	14094.1	14286.6	15278.2	16176.7	14530.5
37.5°	11786.8	11786.8	12059.5	12412.5	12836.1	13715.4	14751.9	14873.8	15727.5	16930.8	15198.0
40°	12114.1	12133.3	12544.1	13073.6	13612.7	14434.2	15185.1	15287.8	15926.4	17450.7	15778.8
42.5°	12476.7	12492.7	12970.9	13664.0	14305.9	15015.0	15448.3	15499.6	15964.9	17710.6	16189.6
45°	12765.5	12788.0	13381.7	14122.9	14909.1	15451.5	15656.9	15701.8	16019.5	17851.8	16488.0
47.5°	12916.3	12948.4	13628.7	14492.0	15316.7	15843.0	16000.2	16019.5	16244.1	18098.9	16847.4
50°	12890.7	12954.8	13721.8	14674.9	15618.3	16237.7	16552.2	16584.3	16703.0	18461.5	17267.8
52.5°	13118.5	13147.4	13920.8	14893.1	16048.4	16966.1	17511.7	17556.6	17502.0	18734.3	17518.1
55°	12739.8	12877.8	13673.7	14861.0	16703.0	18092.5	18933.3	18910.8	18227.3	19039.2	17935.3
57.5°	10304.2	10506.4	11234.8	12614.7	15624.8	18881.9	19995.5	19940.9	18788.9	19273.4	18387.7
60°	7133.7	7165.8	7823.6	8802.4	12059.5	16680.5	19684.2	19802.9	18891.6	18978.2	17550.2
62.5°	5705.7	5696.0	5757.0	5782.7	7669.6	11725.8	15538.1	15971.3	15695.4	14787.2	12438.2
65°	4871.3	4906.6	5086.3	4993.2	5006.1	6604.2	9283.7	9344.7	9152.2	8824.8	6578.5
67.5°	3812.3	3873.3	4191.0	4553.6	4438.1	4252.0	4816.8	4787.9	3773.8	2920.2	2413.2
70°	2387.5	2426.0	2766.2	3574.9	3863.7	3491.4	3096.7	3083.9	2021.7	1662.3	1822.7
72.5°	1392.7	1399.1	1495.4	1992.8	2564.0	2387.5	2278.4	2195.0	1299.7	1325.3	1453.7
75°	767.0	767.0	763.7	860.0	1010.8	895.3	866.4	844.0	869.6	985.2	1081.4
77.5°	160.5	163.7	173.3	227.8	295.2	359.4	452.5	455.7	568.0	657.9	734.9
80°	73.8	77.0	96.3	121.9	157.2	208.6	276.0	279.2	343.4	414.0	465.3
82.5°	38.5	41.7	51.3	64.2	83.4	109.1	154.0	154.0	205.4	243.9	276.0
85°	12.8	12.8	19.3	25.7	35.3	44.9	61.0	61.0	89.9	118.7	138.0
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	12.8	12.8	16.0	19.3	32.1
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°	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5	14392.5
2.5°	14328.3	14228.8	14232.0	14251.3	14190.3	14097.3	14036.3	13959.3	13911.1	13901.5	13936.8
5°	14122.9	14007.4	13927.2	13843.8	13670.5	13465.1	13304.6	13173.1	13086.4	13054.3	13015.8
7.5°	13840.5	13689.7	13487.5	13253.3	12938.8	12573.0	12316.3	12075.6	11908.7	11860.6	11838.1
10°	13558.1	13339.9	12980.5	12544.1	12021.0	11526.8	11061.5	10705.3	10422.9	10262.5	10313.8
12.5°	13266.1	12996.6	12435.0	11764.3	11035.9	10291.4	9681.6	9091.2	8635.5	8407.7	8340.3
15°	13009.4	12643.6	11860.6	10952.4	9983.3	9046.3	8163.8	7278.1	6700.5	6386.0	6299.3
17.5°	12791.2	12316.3	11254.1	10124.5	8966.0	7631.1	6546.4	5724.9	5330.2	5156.9	5144.1
20°	12576.2	11995.3	10654.0	9232.4	7791.5	6296.1	5327.0	4941.9	4800.7	4739.7	4736.5
22.5°	12383.6	11658.4	10021.8	8340.3	6623.4	5291.7	4759.0	4592.1	4553.6	4553.6	4547.2
25°	12220.0	11321.5	9373.6	7393.6	5567.7	4710.9	4463.8	4393.2	4409.2	4438.1	4441.3
27.5°	12152.6	11058.3	8747.8	6421.3	4839.2	4373.9	4261.6	4252.0	4296.9	4341.8	4348.2
30°	12223.2	10878.6	8106.0	5490.6	4402.8	4168.5	4117.2	4136.4	4191.0	4235.9	4235.9
32.5°	12441.4	10788.8	7451.4	4810.3	4149.3	4024.1	4008.1	4027.3	4069.0	4094.7	4097.9
35°	12810.4	10824.1	6774.3	4351.4	3985.6	3918.2	3915.0	3927.9	3943.9	3959.9	3963.2
37.5°	13275.8	10981.3	6049.0	4085.1	3879.7	3841.2	3834.8	3831.6	3834.8	3834.8	3838.0
40°	13731.4	11218.8	5400.8	3927.9	3805.9	3773.8	3757.8	3735.3	3732.1	3725.7	3722.5
42.5°	14068.4	11401.7	4884.1	3815.5	3738.5	3700.0	3680.8	3645.5	3642.2	3639.0	3635.8
45°	14321.9	11555.7	4454.1	3706.4	3667.9	3632.6	3590.9	3558.8	3565.2	3571.6	3571.6
47.5°	14607.5	11690.5	4139.6	3603.7	3581.3	3546.0	3494.6	3472.2	3494.6	3517.1	3517.1
50°	14954.1	11879.8	3882.9	3501.1	3491.4	3449.7	3404.8	3395.2	3420.8	3452.9	3452.9
52.5°	15207.6	12043.5	3700.0	3398.4	3398.4	3343.8	3305.3	3302.1	3331.0	3363.1	3366.3
55°	15682.5	12425.4	3635.8	3279.6	3266.8	3225.1	3196.2	3173.7	3209.0	3237.9	3237.9
57.5°	16218.4	12932.4	3651.9	3109.5	3093.5	3080.7	3058.2	3032.5	3042.2	3074.2	3077.5
60°	15082.4	11950.4	3475.4	2939.5	2929.8	2923.4	2894.5	2849.6	2862.5	2888.1	2891.3
62.5°	10535.2	7942.3	2811.1	2727.7	2759.8	2756.6	2718.0	2666.7	2669.9	2705.2	2705.2
65°	5468.2	4296.9	2467.7	2535.1	2583.3	2564.0	2499.8	2454.9	2448.5	2493.4	2483.8
67.5°	2358.6	2345.8	2246.3	2333.0	2384.3	2342.6	2275.2	2201.4	2207.8	2223.9	2211.0
70°	1899.7	1957.5	1999.2	2092.3	2134.0	2057.0	1983.2	1941.5	1906.2	1903.0	1880.5
72.5°	1517.9	1598.1	1691.2	1787.4	1800.3	1723.2	1630.2	1591.7	1537.1	1533.9	1511.5
75°	1142.4	1209.8	1283.6	1360.6	1360.6	1286.8	1225.8	1206.6	1142.4	1123.2	1103.9
77.5°	779.8	821.5	879.3	898.5	917.8	888.9	827.9	795.8	722.0	702.8	677.1
80°	491.0	519.9	555.2	568.0	587.3	552.0	503.8	468.5	417.2	401.1	388.3
82.5°	295.2	314.5	336.9	343.4	359.4	333.7	288.8	263.1	234.3	221.4	211.8
85°	150.8	160.5	173.3	176.5	173.3	147.6	131.6	118.7	99.5	96.3	89.9
87.5°	38.5	44.9	48.1	44.9	41.7	32.1	22.5	16.0	6.4	6.4	3.2
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)