

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: P638387

Luminaire Tested: GWS-SA4E-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638387
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-SA4E-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26351.9 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

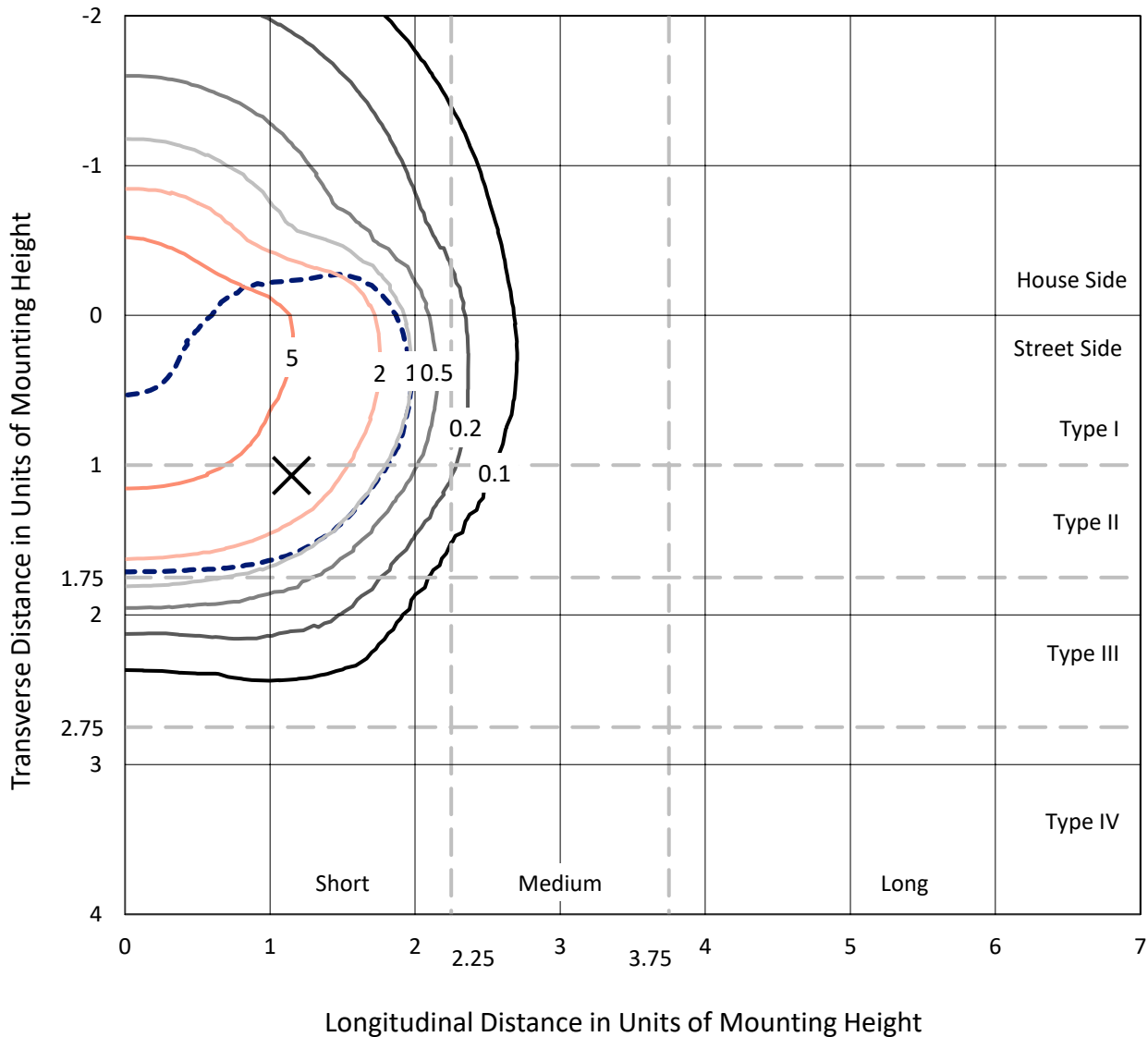
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

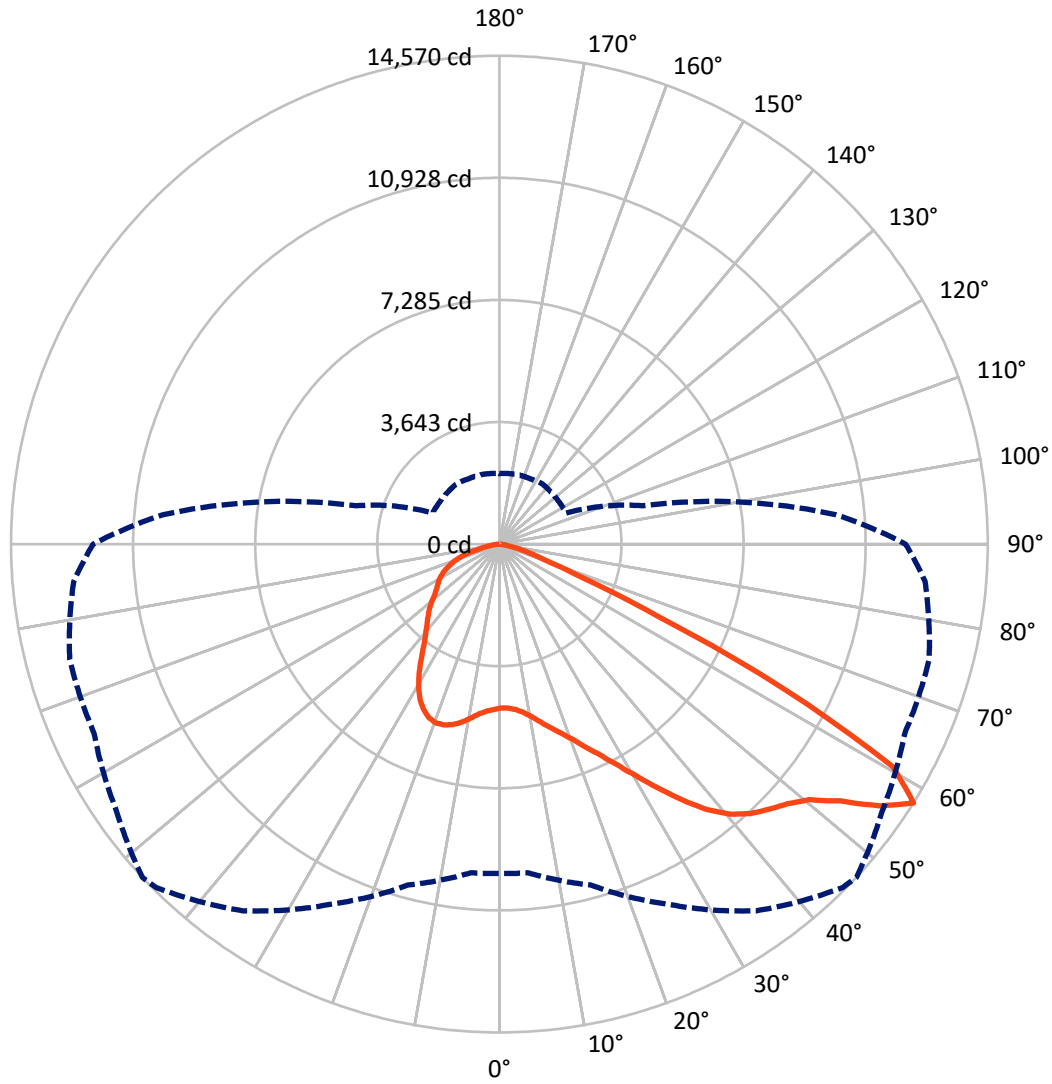
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	8340.3	0.0	8340.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18011.6	0.0	18011.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	26351.9	0.0	26351.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.0	1.8
10°-20°	1585.4	6.0
20°-30°	2854.6	10.8
30°-40°	4311.6	16.4
40°-50°	5806.1	22.0
50°-60°	6976.8	26.5
60°-70°	3397.8	12.9
70°-80°	837.1	3.2
80°-90°	100.6	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°	26351.9	100.0
0°-180°	26351.9	100.0

Coefficient of Utilization



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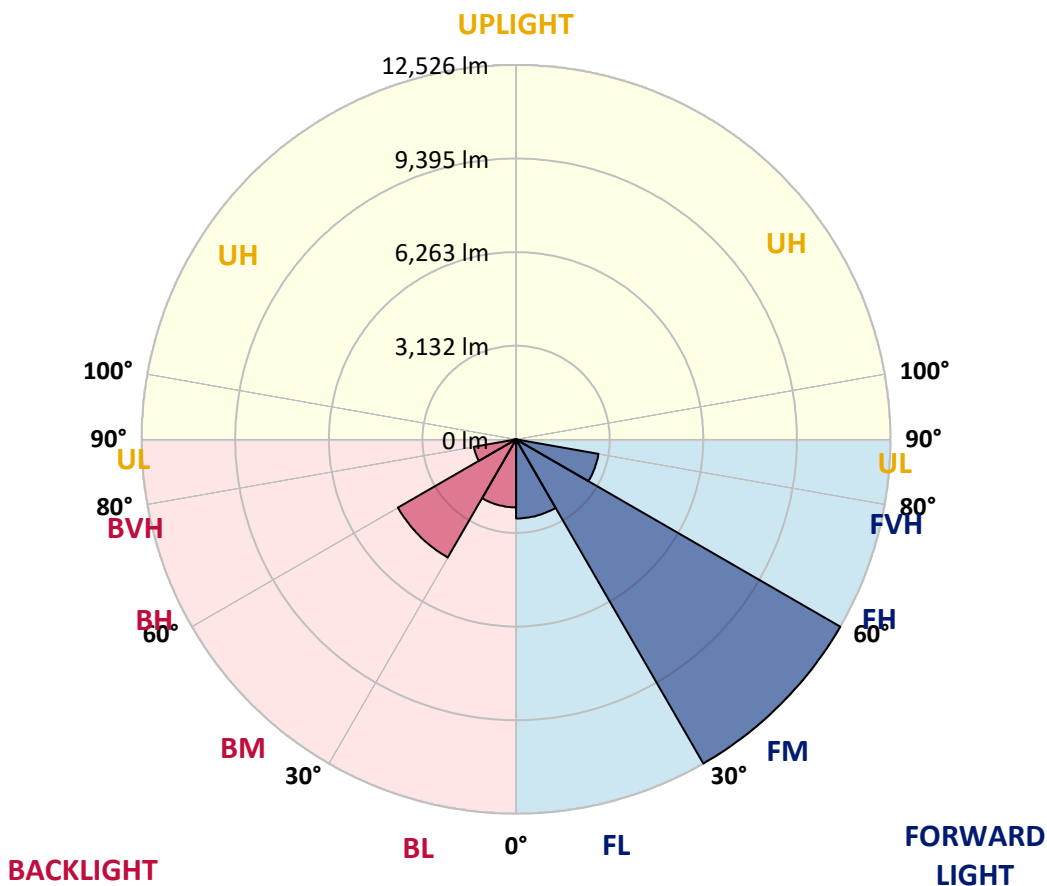
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2646.9	10.0			
FM (30°-60°)	12526.4	47.5			
FH (60°-80°)	2800.4	10.6			G2/5000
FVH (80°-90°)	37.8	0.1			G1/100
BL (0°-30°)	2275.1	8.6	B3/2500		
BM (30°-60°)	4568.0	17.3	B3/5000		
BH (60°-80°)	1434.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0
2.5°	4878.1	4875.9	4875.9	4889.2	4889.2	4893.6	4900.3	4906.9	4909.1	4898.1	4873.7
5°	4931.3	4931.3	4931.3	4942.3	4942.3	4946.8	4955.6	4957.8	4955.6	4937.9	4913.6
7.5°	5015.4	5015.4	5017.6	5030.9	5041.9	5048.6	5064.1	5061.8	5055.2	5026.4	4995.5
10°	5152.6	5159.2	5165.9	5181.4	5203.5	5219.0	5230.1	5230.1	5221.2	5176.9	5137.1
12.5°	5347.4	5356.2	5362.9	5376.1	5393.8	5420.4	5444.8	5444.8	5433.7	5378.4	5318.6
15°	5575.3	5584.2	5582.0	5586.4	5619.6	5657.2	5677.2	5690.4	5694.9	5617.4	5524.4
17.5°	5836.5	5845.4	5836.5	5823.2	5827.7	5887.4	5922.8	5971.5	6000.3	5896.3	5748.0
20°	6073.3	6064.5	6064.5	6073.3	6086.6	6159.7	6212.8	6292.5	6327.9	6201.7	5971.5
22.5°	6323.4	6343.4	6334.5	6334.5	6387.6	6509.4	6573.5	6677.6	6715.2	6551.4	6241.5
25°	6646.6	6664.3	6659.9	6664.3	6726.3	6898.9	6963.1	7155.6	7193.3	6958.7	6540.3
27.5°	7000.7	7029.5	7042.8	7038.3	7137.9	7363.7	7443.4	7711.2	7779.8	7414.6	6859.1
30°	7461.1	7492.1	7503.1	7498.7	7616.0	7923.7	8014.4	8319.8	8417.2	7954.7	7264.1
32.5°	7994.5	8025.5	8058.7	8072.0	8222.5	8536.8	8667.3	8983.8	9123.3	8578.8	7753.2
35°	8523.5	8550.0	8614.2	8718.2	8924.1	9245.0	9360.1	9672.2	9807.2	9227.3	8344.2
37.5°	9107.8	9125.5	9180.8	9324.7	9621.3	9926.7	10041.8	10340.6	10356.1	9853.7	9012.6
40°	9747.4	9747.4	9736.4	9878.0	10187.9	10495.5	10595.1	10767.8	10677.0	10336.2	9663.3
42.5°	10289.7	10280.8	10289.7	10422.5	10652.7	10902.8	10989.1	10955.9	10840.8	10705.8	10252.1
45°	10778.8	10785.5	10865.2	10967.0	11086.5	11234.8	11285.7	11097.6	10993.5	11002.4	10723.5
47.5°	11110.8	11117.5	11303.4	11473.8	11546.9	11593.3	11571.2	11310.0	11256.9	11356.5	11086.5
50°	11155.1	11190.5	11511.4	11861.2	12042.6	12049.3	11987.3	11668.6	11653.1	11766.0	11281.3
52.5°	11164.0	11199.4	11600.0	12230.8	12702.2	12801.8	12731.0	12399.0	12237.4	12124.5	11520.3
55°	11130.8	11170.6	11613.3	12478.7	13381.7	13780.1	13786.7	13317.5	12801.8	12726.6	12202.0
57.5°	9827.1	9842.6	10528.7	11847.9	13355.1	14483.9	14570.2	13932.8	13344.1	13273.2	12748.7
60°	6845.8	6907.8	7653.6	9395.5	11219.3	13209.1	13487.9	13302.0	12908.0	12392.3	10938.2
62.5°	3428.4	3481.5	4229.6	5876.3	7737.7	9309.2	9608.0	9805.0	9897.9	9344.6	7447.8
65°	1476.3	1516.1	1980.9	3069.9	4380.1	5139.3	5243.3	5480.2	6060.1	5407.1	4012.7
67.5°	987.1	1013.7	1250.5	1872.5	2580.7	2629.4	2613.9	2664.8	2791.0	2304.1	1812.7
70°	757.0	779.1	938.4	1372.3	1854.8	1586.9	1502.8	1363.4	1480.7	1509.5	1469.6
72.5°	548.9	566.6	686.1	936.2	1162.0	1013.7	1000.4	1071.2	1230.6	1274.9	1250.5
75°	354.1	363.0	436.0	513.5	599.8	650.7	677.3	805.6	967.2	1000.4	971.6
77.5°	236.8	243.5	285.5	329.8	340.9	343.1	351.9	409.5	520.1	582.1	575.5
80°	123.9	123.9	139.4	139.4	159.4	190.3	199.2	236.8	287.7	318.7	320.9
82.5°	48.7	50.9	59.8	66.4	79.7	97.4	104.0	123.9	150.5	172.6	192.6
85°	19.9	22.1	24.3	28.8	35.4	44.3	46.5	53.1	70.8	88.5	99.6
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	6.6	8.9	11.1	19.9	26.6
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°	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0	4887.0
2.5°	4902.5	4873.7	4902.5	4911.3	4935.7	4944.5	4929.1	4926.8	4926.8	4904.7	4898.1
5°	4935.7	4909.1	4937.9	4951.2	4986.6	5008.7	5013.2	5030.9	5041.9	5033.1	5030.9
7.5°	5017.6	4984.4	5015.4	5035.3	5081.8	5117.2	5132.7	5172.5	5201.3	5196.9	5194.6
10°	5161.4	5117.2	5152.6	5185.8	5236.7	5278.8	5281.0	5303.1	5331.9	5323.0	5318.6
12.5°	5327.4	5285.4	5325.2	5358.4	5418.2	5435.9	5407.1	5398.3	5402.7	5391.6	5382.8
15°	5531.1	5471.3	5506.7	5544.4	5577.6	5557.6	5495.7	5471.3	5469.1	5453.6	5444.8
17.5°	5734.7	5659.4	5686.0	5705.9	5690.4	5628.5	5551.0	5508.9	5489.0	5458.0	5449.2
20°	5936.1	5840.9	5836.5	5821.0	5750.2	5637.3	5533.3	5449.2	5398.3	5356.2	5340.7
22.5°	6166.3	6033.5	5967.1	5896.3	5741.3	5557.6	5400.5	5281.0	5199.1	5146.0	5128.2
25°	6414.2	6226.1	6088.8	5947.2	5652.8	5387.2	5168.1	5004.3	4906.9	4849.4	4829.5
27.5°	6659.9	6400.9	6195.1	5953.8	5475.7	5141.5	4847.2	4625.8	4528.4	4482.0	4466.5
30°	6991.9	6633.3	6321.2	5867.5	5243.3	4800.7	4433.3	4209.7	4145.5	4112.3	4099.1
32.5°	7374.8	6927.7	6489.4	5686.0	4946.8	4402.3	4015.0	3860.0	3815.8	3751.6	3749.4
35°	7879.4	7348.2	6648.8	5418.2	4572.7	3975.1	3694.0	3583.4	3503.7	3401.9	3393.0
37.5°	8468.1	7872.8	6735.1	5077.3	4136.7	3623.2	3455.0	3331.0	3202.7	3067.7	3049.9
40°	9076.8	8485.8	6741.8	4674.5	3709.5	3390.8	3249.1	3087.6	2928.2	2777.7	2757.8
42.5°	9716.4	9056.9	6624.4	4209.7	3359.8	3189.4	3045.5	2841.9	2662.6	2560.8	2549.7
45°	10287.5	9517.3	6358.9	3720.6	3100.9	3021.2	2837.5	2618.4	2523.2	2450.1	2434.6
47.5°	10736.8	9822.7	6000.3	3282.3	2890.6	2848.5	2609.5	2496.6	2423.6	2357.2	2341.7
50°	10958.1	9891.3	5533.3	2926.0	2695.8	2644.9	2481.1	2394.8	2346.1	2293.0	2279.7
52.5°	11232.6	9968.8	5130.5	2627.2	2505.5	2436.9	2374.9	2306.3	2270.9	2237.7	2226.6
55°	11863.4	10260.9	4918.0	2388.2	2324.0	2293.0	2284.1	2226.6	2215.5	2193.4	2173.5
57.5°	12120.1	10072.8	4415.6	2193.4	2180.1	2184.5	2206.7	2153.6	2142.5	2115.9	2102.6
60°	9747.4	7613.8	2990.2	2025.2	2060.6	2089.4	2111.5	2058.4	2042.9	2038.5	2020.8
62.5°	6246.0	4683.4	2087.2	1868.0	1921.2	1956.6	1969.8	1918.9	1907.9	1943.3	1945.5
65°	3251.4	2552.0	1693.2	1699.8	1744.1	1797.2	1823.8	1806.1	1801.6	1839.3	1841.5
67.5°	1660.0	1560.4	1476.3	1500.6	1536.0	1604.7	1666.6	1744.1	1770.7	1775.1	1777.3
70°	1414.3	1370.0	1328.0	1343.5	1381.1	1418.7	1478.5	1516.1	1471.9	1460.8	1456.4
72.5°	1204.0	1170.8	1150.9	1168.6	1188.5	1181.9	1164.2	1181.9	1188.5	1190.8	1193.0
75°	936.2	911.9	896.4	898.6	898.6	874.3	841.1	821.1	799.0	781.3	781.3
77.5°	573.2	577.7	593.2	591.0	588.7	579.9	546.7	529.0	475.9	460.4	460.4
80°	327.6	334.2	349.7	354.1	354.1	343.1	309.9	289.9	265.6	254.5	252.3
82.5°	199.2	208.1	216.9	221.3	223.5	210.3	181.5	166.0	152.7	141.7	141.7
85°	104.0	108.5	117.3	119.5	112.9	99.6	84.1	77.5	64.2	62.0	62.0
87.5°	28.8	31.0	35.4	28.8	26.6	19.9	11.1	8.9	4.4	2.2	2.2
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)