

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: P638324

Luminaire Tested: GWS-SA4E-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26098.7 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

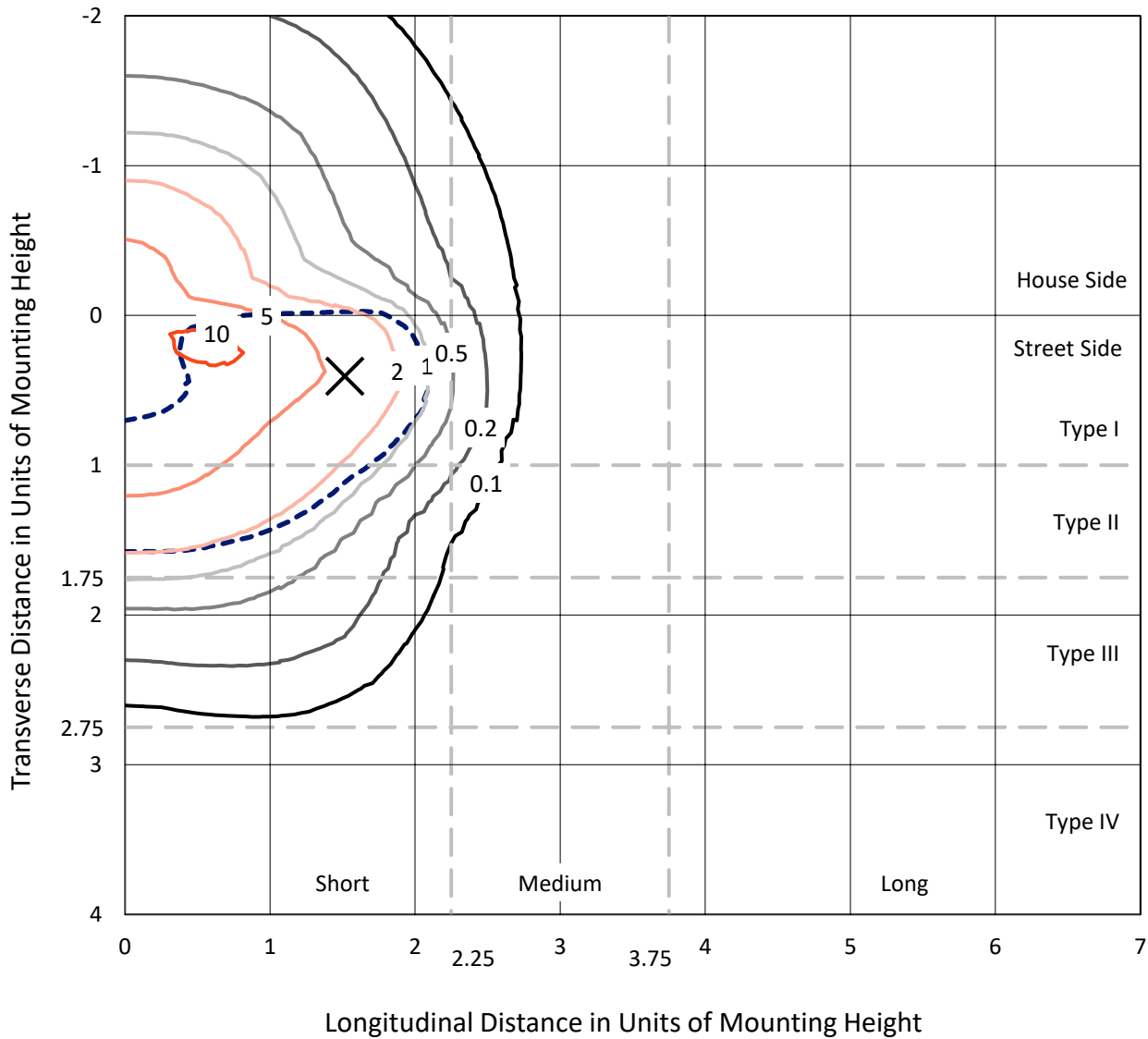
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

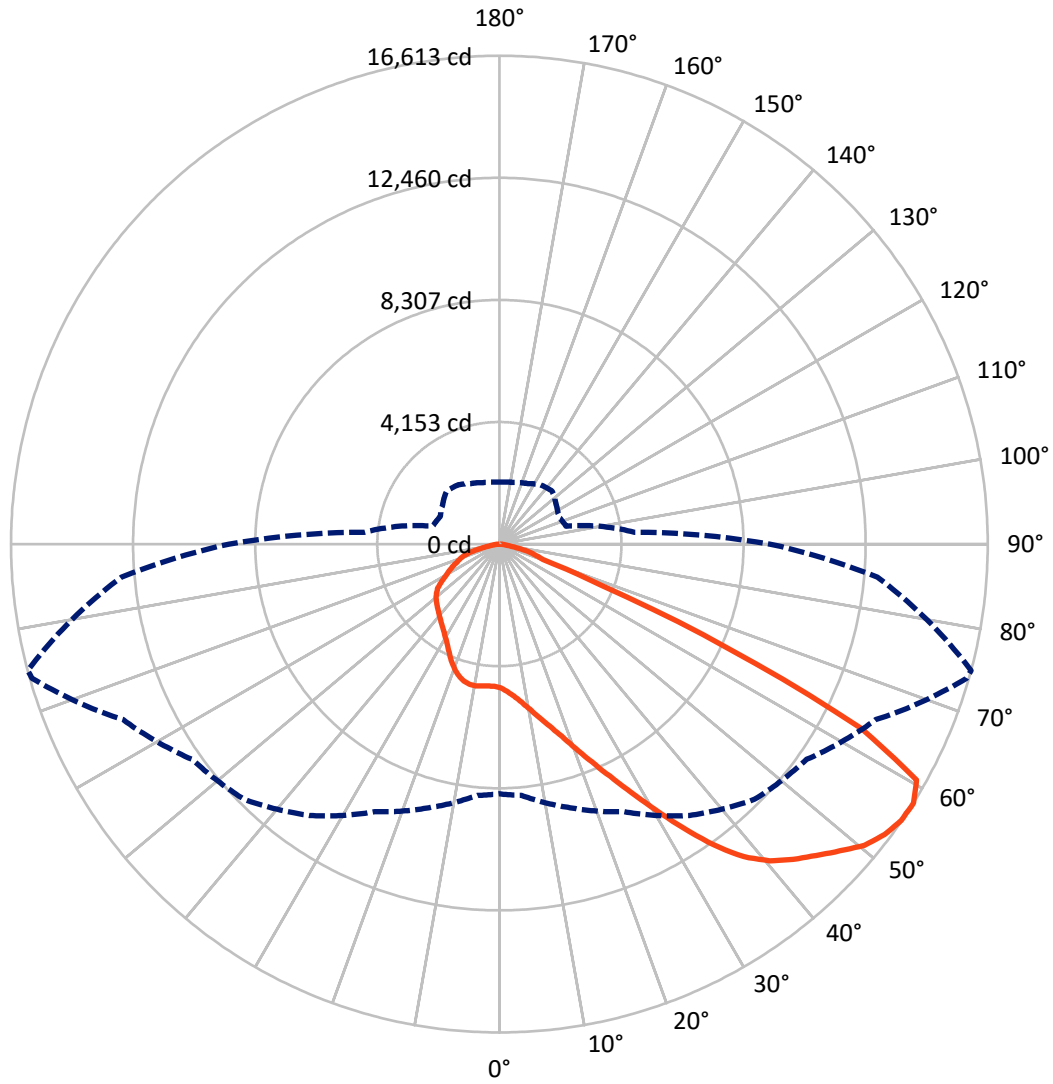
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7060.2	0.0	7060.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	19038.5	0.0	19038.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	26098.7	0.0	26098.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.1	1.9
10°-20°	1557.2	6.0
20°-30°	2761.7	10.6
30°-40°	4227.6	16.2
40°-50°	5886.6	22.6
50°-60°	6745.0	25.8
60°-70°	3465.7	13.3
70°-80°	872.5	3.3
80°-90°	93.3	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°	26098.7	100.0
0°-180°	26098.7	100.0

Coefficient of Utilization

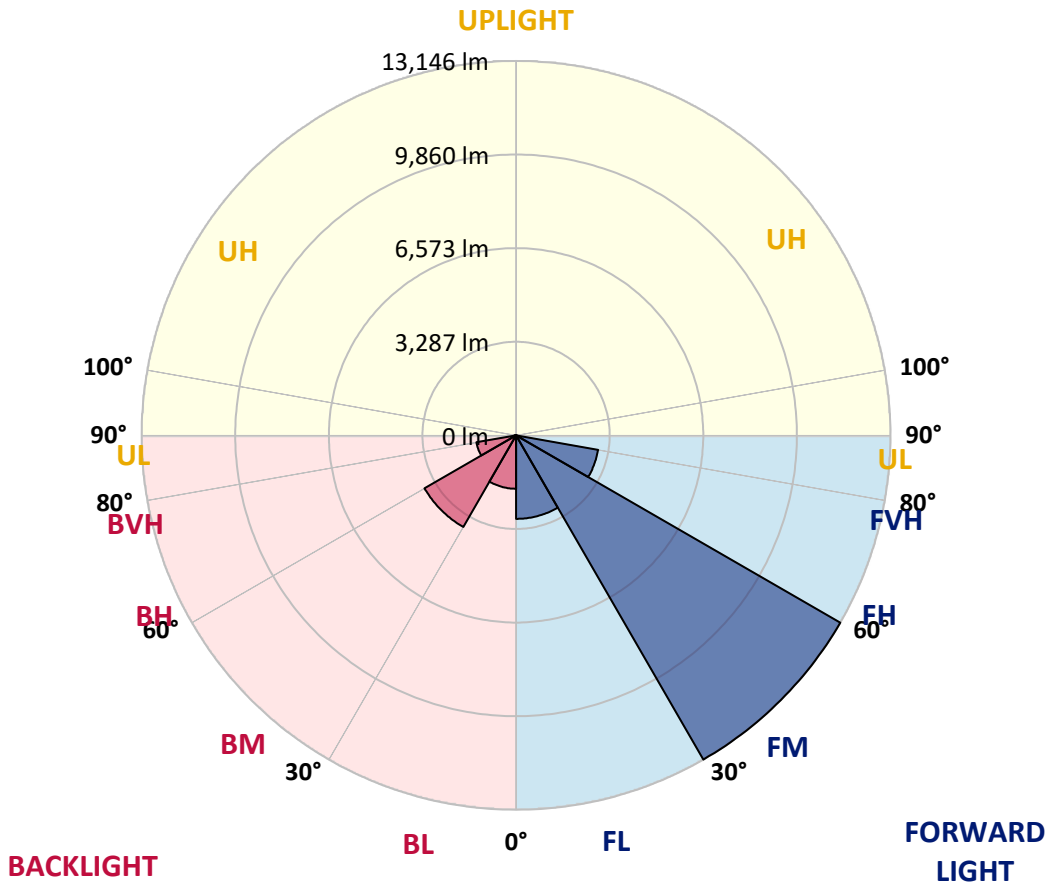


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2932.4	11.2			
FM (30°-60°)	13146.2	50.4			
FH (60°-80°)	2925.4	11.2			G2/5000
FVH (80°-90°)	34.5	0.1			G1/100
BL (0°-30°)	1875.6	7.2	B3/2500		
BM (30°-60°)	3713.0	14.2	B3/5000		
BH (60°-80°)	1412.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	58.7	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°	55°	65°	74°	75°	85°
0°	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7
2.5°	5251.2	5264.7	5251.2	5273.6	5228.8	5208.6	5159.2	5085.1	5026.8	5017.8	4952.7
5°	5659.6	5688.8	5670.9	5661.9	5601.3	5556.4	5482.3	5334.2	5213.1	5195.1	5067.2
7.5°	5922.2	5942.4	5942.4	5949.1	5926.7	5875.1	5796.5	5621.5	5450.9	5424.0	5231.0
10°	6009.7	6025.4	6054.6	6110.7	6155.6	6171.3	6119.7	5951.4	5742.7	5715.7	5446.4
12.5°	6029.9	6047.9	6092.7	6196.0	6319.4	6431.6	6440.6	6317.2	6083.8	6054.6	5695.5
15°	6068.1	6086.0	6146.6	6274.5	6456.3	6671.7	6804.1	6718.8	6460.8	6429.4	5978.3
17.5°	6063.6	6083.8	6173.5	6344.1	6588.7	6900.6	7156.4	7192.4	6925.3	6871.4	6299.2
20°	6052.4	6070.3	6166.8	6375.5	6678.5	7107.1	7569.4	7755.6	7468.4	7419.0	6674.0
22.5°	6142.1	6162.3	6236.4	6409.2	6725.6	7266.4	7950.9	8399.7	8112.4	8042.9	7104.8
25°	6344.1	6373.3	6418.1	6537.1	6810.9	7407.8	8341.3	9129.0	8835.0	8752.0	7573.9
27.5°	6656.0	6691.9	6754.8	6810.9	7001.6	7587.3	8729.6	9945.9	9651.9	9564.4	8069.8
30°	7037.5	7084.6	7165.4	7203.6	7333.7	7852.1	9151.5	10787.4	10616.9	10495.7	8628.6
32.5°	7564.9	7630.0	7706.3	7717.5	7796.0	8253.8	9568.9	11622.2	11620.0	11534.7	9263.7
35°	8251.6	8321.1	8336.8	8352.6	8390.7	8805.9	10073.8	12383.0	12676.9	12578.2	9954.8
37.5°	9001.1	9102.1	9126.8	9057.2	9111.1	9470.1	10641.5	12993.4	13597.0	13491.6	10623.6
40°	9802.2	9842.6	9910.0	9800.0	9867.3	10230.9	11198.1	13383.8	14283.7	14171.5	11151.0
42.5°	10376.7	10450.8	10551.8	10511.4	10549.5	10881.7	11588.6	13572.3	14772.9	14660.7	11530.2
45°	11000.6	11023.0	11088.1	11079.1	11101.6	11411.3	11869.1	13655.4	15210.5	15109.6	11853.4
47.5°	11543.7	11577.3	11620.0	11570.6	11521.2	11723.2	12098.0	13727.2	15715.5	15594.3	12192.2
50°	12066.6	12095.7	12147.3	12003.7	11819.7	11871.3	12210.2	13825.9	16189.0	16103.7	12459.3
52.5°	12163.0	12194.5	12436.8	12466.0	12230.4	12048.6	12407.7	14043.6	16467.2	16413.4	12555.8
55°	10949.0	11005.1	11487.6	12041.9	12623.1	12564.7	12724.1	14158.1	16577.2	16590.7	12728.6
57.5°	8498.4	8579.2	9283.9	10044.6	11267.6	12279.7	12764.5	14128.9	16539.1	16613.1	12905.8
60°	5574.4	5621.5	6456.3	7309.0	8577.0	9977.3	11424.7	13603.8	16200.2	16305.7	12861.0
62.5°	3366.2	3420.0	4091.0	4737.3	5484.6	6420.4	7748.9	10933.3	13579.1	13814.7	10300.4
65°	2349.6	2421.4	3009.3	3541.2	3799.3	3606.3	3924.9	6106.2	8460.3	8559.0	6294.7
67.5°	1703.3	1752.6	2235.1	2868.0	3153.0	2547.1	1941.2	2704.1	3684.8	3720.7	2596.4
70°	1115.3	1171.4	1609.0	2183.5	2574.0	2064.6	1451.9	1463.2	1550.7	1568.6	1508.0
72.5°	612.6	646.3	994.1	1449.7	1521.5	1234.3	1133.3	1216.3	1276.9	1276.9	1292.6
75°	316.4	345.6	406.2	478.0	576.7	675.5	816.9	940.3	1005.4	1009.8	1003.1
77.5°	161.6	172.8	217.7	235.6	258.1	300.7	390.5	500.4	558.8	581.2	576.7
80°	76.3	80.8	92.0	107.7	132.4	168.3	210.9	251.3	287.2	291.7	316.4
82.5°	40.4	44.9	49.4	58.3	71.8	89.8	123.4	148.1	170.6	175.0	195.2
85°	15.7	18.0	20.2	22.4	31.4	38.1	51.6	69.6	85.3	85.3	101.0
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	9.0	11.2	15.7	15.7	26.9
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°	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7	4887.7
2.5°	4937.0	4872.0	4842.8	4795.7	4757.5	4714.9	4681.2	4656.5	4640.8	4631.8	4622.9
5°	5017.8	4919.1	4840.5	4746.3	4681.2	4618.4	4566.8	4530.8	4512.9	4499.4	4490.5
7.5°	5143.5	5011.1	4863.0	4717.1	4602.7	4501.7	4436.6	4398.4	4373.8	4364.8	4358.1
10°	5316.3	5132.3	4887.7	4656.5	4486.0	4376.0	4331.1	4313.2	4315.4	4310.9	4308.7
12.5°	5511.5	5260.2	4880.9	4548.8	4360.3	4295.2	4297.5	4326.6	4360.3	4369.3	4371.5
15°	5722.5	5385.9	4815.8	4409.7	4261.6	4268.3	4326.6	4396.2	4459.0	4483.7	4488.2
17.5°	5951.4	5491.3	4696.9	4257.1	4180.8	4252.6	4360.3	4474.7	4566.8	4607.1	4618.4
20°	6207.2	5581.1	4528.6	4106.7	4104.5	4223.4	4380.5	4530.8	4647.5	4701.4	4710.4
22.5°	6478.7	5637.2	4322.1	3967.6	4025.9	4185.3	4364.8	4521.9	4645.3	4699.2	4710.4
25°	6752.5	5655.1	4095.5	3839.7	3945.1	4124.7	4288.5	4414.2	4530.8	4578.0	4586.9
27.5°	7008.3	5603.5	3880.1	3729.7	3871.1	4034.9	4144.9	4212.2	4293.0	4328.9	4335.6
30°	7268.7	5500.3	3698.3	3642.2	3788.0	3911.5	3960.8	3965.3	3996.8	3996.8	4001.2
32.5°	7531.2	5347.7	3539.0	3556.9	3684.8	3765.6	3772.3	3720.7	3682.6	3619.7	3617.5
35°	7834.2	5192.9	3408.8	3460.4	3563.6	3613.0	3592.8	3494.1	3402.1	3298.8	3294.3
37.5°	8114.7	5033.5	3298.8	3361.7	3426.7	3462.7	3415.5	3296.6	3220.3	3114.8	3099.1
40°	8345.8	4889.9	3193.4	3258.4	3289.9	3321.3	3245.0	3148.5	3159.7	3101.4	3099.1
42.5°	8480.5	4750.8	3094.6	3144.0	3164.2	3186.6	3119.3	3047.5	3108.1	3063.2	3065.4
45°	8579.2	4629.6	3004.9	3022.8	3072.2	3105.8	3043.0	2962.2	2975.7	2802.9	2762.5
47.5°	8691.4	4562.3	2919.6	2901.6	2989.1	3047.5	2951.0	2834.3	2753.5	2583.0	2567.3
50°	8810.4	4537.6	2829.8	2780.4	2885.9	2942.0	2829.8	2683.9	2578.5	2486.5	2477.5
52.5°	8850.7	4535.3	2717.6	2634.6	2740.1	2818.6	2724.3	2576.2	2450.6	2360.8	2356.3
55°	9010.1	4600.4	2574.0	2434.9	2533.6	2695.2	2625.6	2412.4	2311.4	2271.0	2266.5
57.5°	9196.3	4611.6	2347.3	2217.2	2354.1	2544.8	2457.3	2273.3	2163.3	2113.9	2109.5
60°	9120.0	4335.6	2105.0	2051.1	2201.5	2403.4	2322.6	2163.3	2035.4	1988.3	1983.8
62.5°	6950.0	3061.0	1927.7	1907.5	2037.6	2199.2	2183.5	2017.5	1896.3	1862.6	1858.1
65°	4180.8	2149.9	1757.1	1754.9	1846.9	2001.7	2021.9	1887.3	1759.4	1712.3	1712.3
67.5°	2066.8	1644.9	1564.1	1552.9	1611.3	1721.2	1806.5	1696.5	1588.8	1543.9	1537.2
70°	1460.9	1449.7	1422.8	1391.3	1402.6	1447.4	1483.4	1391.3	1276.9	1232.0	1223.0
72.5°	1263.4	1265.7	1247.7	1223.0	1214.1	1182.6	1151.2	1083.9	1014.3	967.2	971.7
75°	980.7	985.2	996.4	987.4	962.7	929.1	895.4	810.1	754.0	709.1	700.2
77.5°	572.2	594.7	630.6	621.6	626.1	579.0	565.5	482.5	430.9	399.5	392.7
80°	323.2	336.6	352.3	363.5	350.1	329.9	300.7	255.8	240.1	217.7	213.2
82.5°	195.2	208.7	215.4	224.4	219.9	193.0	170.6	141.4	127.9	116.7	114.4
85°	98.7	107.7	114.4	118.9	105.5	87.5	78.5	62.8	53.9	47.1	47.1
87.5°	24.7	26.9	31.4	26.9	24.7	11.2	9.0	2.2	0.0	0.0	0.0
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)