

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: P638309

Luminaire Tested: GWS-SA4E-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638309
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-SA4E-750-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26215.4 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

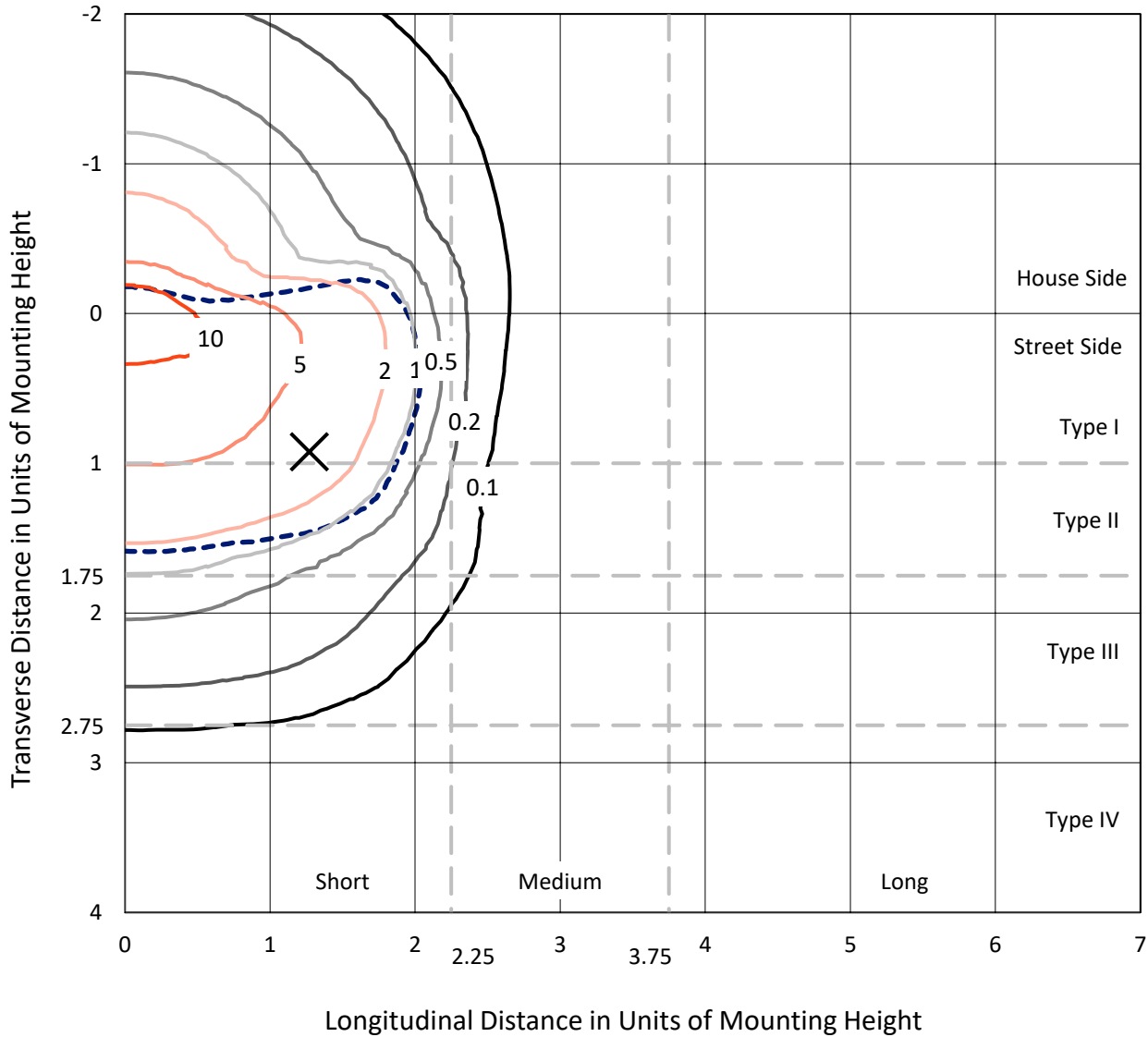
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

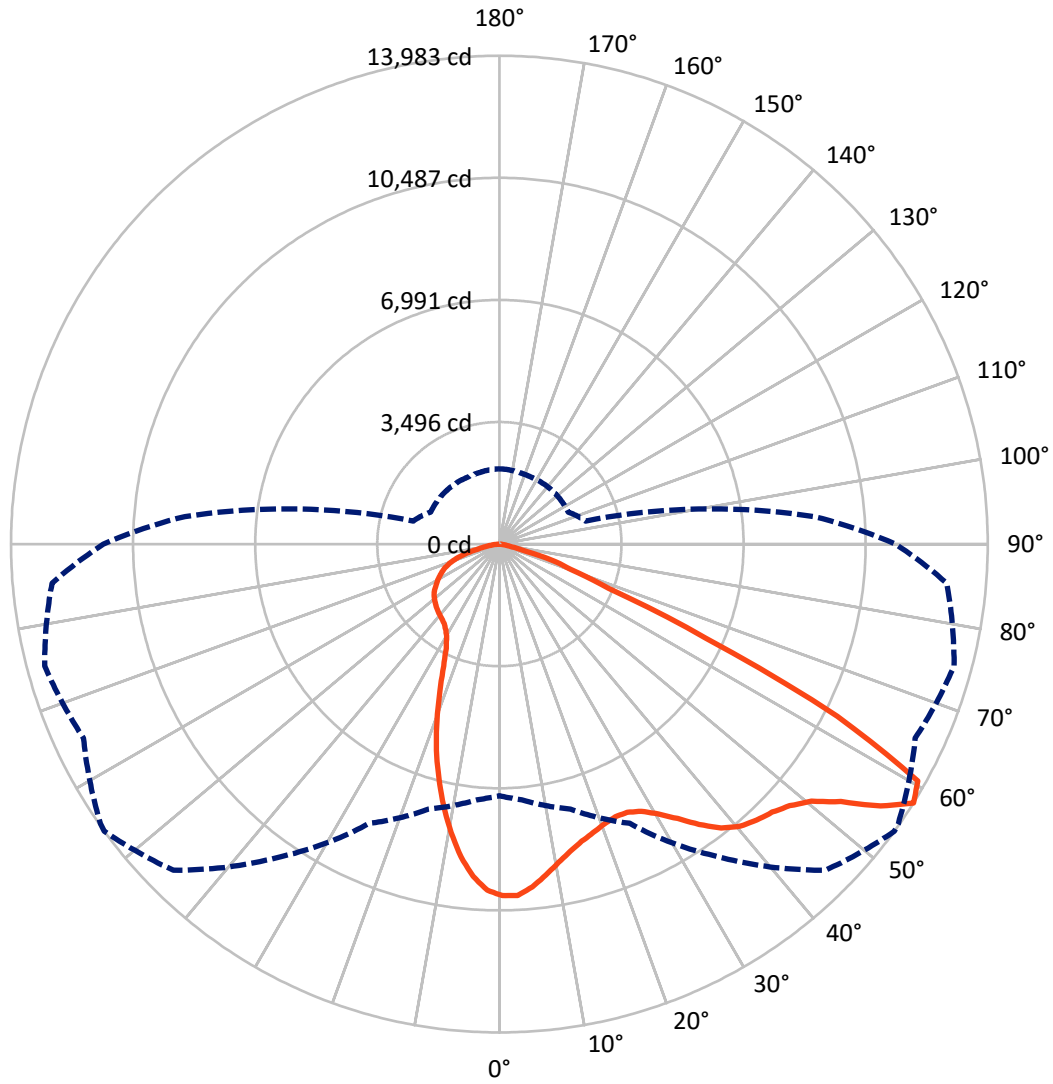
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	7621.1	0.0	7621.1
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	18594.3	0.0	18594.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	26215.4	0.0	26215.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.7	3.4
10°-20°	2110.9	8.1
20°-30°	2921.2	11.1
30°-40°	4059.1	15.5
40°-50°	5360.8	20.4
50°-60°	6370.5	24.3
60°-70°	3529.4	13.5
70°-80°	878.9	3.4
80°-90°	99.9	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°	26215.4	100.0
0°-180°	26215.4	100.0

Coefficient of Utilization



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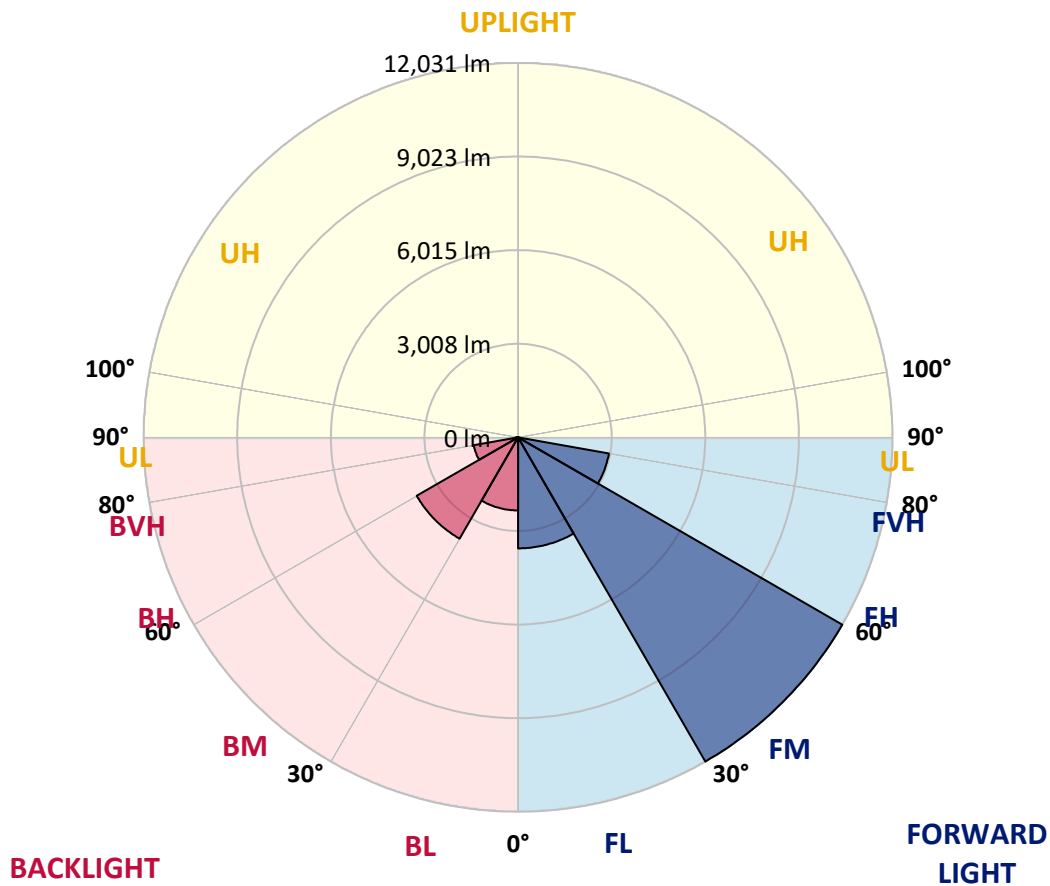
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3568.3	13.6			
FM (30°-60°)	12030.7	45.9			
FH (60°-80°)	2964.0	11.3			G2/5000
FVH (80°-90°)	31.3	0.1			G1/100
BL (0°-30°)	2348.5	9.0	B3/2500		
BM (30°-60°)	3759.7	14.3	B3/5000		
BH (60°-80°)	1444.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	68.7	0.3			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°	54°	55°	65°	75°	85°
0°	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7
2.5°	9876.2	9896.4	9909.8	9957.0	9997.4	10033.3	10071.4	10071.4	10069.2	10062.4	10049.0
5°	9485.7	9508.2	9539.6	9604.7	9692.2	9755.0	9858.2	9867.2	9912.1	9930.0	9921.1
7.5°	9032.4	9039.1	9079.5	9164.8	9303.9	9416.1	9564.3	9582.2	9689.9	9752.8	9741.5
10°	8536.5	8514.0	8585.8	8711.5	8893.3	9081.8	9272.5	9288.2	9461.0	9580.0	9571.0
12.5°	8083.2	8085.4	8157.2	8309.8	8536.5	8769.9	9025.7	9061.6	9274.8	9427.4	9411.7
15°	7703.9	7712.9	7800.4	7973.2	8231.3	8509.5	8828.2	8861.9	9131.2	9333.1	9288.2
17.5°	7401.0	7409.9	7486.2	7683.7	7959.7	8296.4	8684.6	8718.2	9052.6	9292.7	9200.7
20°	7192.3	7187.8	7261.8	7450.3	7735.3	8101.1	8558.9	8608.3	9027.9	9308.4	9142.4
22.5°	7107.0	7104.7	7158.6	7313.4	7580.5	7950.8	8482.6	8549.9	9054.9	9378.0	9106.5
25°	7149.6	7140.7	7187.8	7302.2	7515.4	7892.4	8505.1	8576.9	9169.3	9521.6	9113.2
27.5°	7282.0	7270.8	7311.2	7414.4	7576.0	7953.0	8662.1	8745.2	9411.7	9784.2	9203.0
30°	7484.0	7477.3	7517.7	7616.4	7757.8	8155.0	8962.8	9057.1	9786.4	10192.6	9398.2
32.5°	7719.6	7708.4	7780.2	7894.7	8058.5	8523.0	9366.8	9490.2	10230.7	10717.7	9725.8
35°	7984.4	7975.5	8074.2	8240.3	8475.9	9034.7	9856.0	9990.6	10684.1	11312.4	10161.2
37.5°	8242.5	8242.5	8433.2	8680.1	8976.3	9591.2	10316.0	10401.3	10998.2	11839.8	10628.0
40°	8471.4	8484.9	8772.1	9142.4	9519.4	10093.9	10619.0	10690.8	11137.4	12203.3	11034.1
42.5°	8725.0	8736.2	9070.6	9555.3	10004.1	10500.0	10803.0	10838.9	11164.3	12385.1	11321.4
45°	8926.9	8942.6	9357.8	9876.2	10426.0	10805.2	10948.9	10980.3	11202.4	12483.8	11530.1
47.5°	9032.4	9054.9	9530.6	10134.3	10711.0	11079.0	11189.0	11202.4	11359.5	12656.6	11781.4
50°	9014.5	9059.3	9595.7	10262.2	10921.9	11355.0	11575.0	11597.4	11680.4	12910.2	12075.4
52.5°	9173.8	9194.0	9734.8	10414.8	11222.6	11864.4	12245.9	12277.3	12239.2	13100.9	12250.4
55°	8909.0	9005.5	9562.0	10392.3	11680.4	12652.1	13240.1	13224.3	12746.4	13314.1	12542.1
57.5°	7205.7	7347.1	7856.5	8821.5	10926.4	13204.2	13982.8	13944.7	13139.1	13477.9	12858.6
60°	4988.6	5011.0	5471.1	6155.5	8433.2	11664.7	13765.2	13848.2	13210.9	13271.5	12272.9
62.5°	3990.0	3983.2	4025.9	4043.8	5363.3	8199.9	10865.8	11168.8	10975.8	10340.7	8698.0
65°	3406.5	3431.2	3556.9	3491.8	3500.8	4618.3	6492.1	6534.8	6400.1	6171.2	4600.4
67.5°	2666.0	2708.6	2930.8	3184.3	3103.6	2973.4	3368.4	3348.2	2639.0	2042.1	1687.5
70°	1669.6	1696.5	1934.4	2499.9	2701.9	2441.6	2165.5	2156.6	1413.8	1162.4	1274.6
72.5°	973.9	978.4	1045.7	1393.6	1793.0	1669.6	1593.3	1534.9	908.9	926.8	1016.6
75°	536.3	536.3	534.1	601.4	706.9	626.1	605.9	590.2	608.1	688.9	756.3
77.5°	112.2	114.4	121.2	159.3	206.5	251.3	316.4	318.7	397.2	460.0	513.9
80°	51.6	53.9	67.3	85.3	110.0	145.9	193.0	195.2	240.1	289.5	325.4
82.5°	26.9	29.2	35.9	44.9	58.3	76.3	107.7	107.7	143.6	170.5	193.0
85°	9.0	9.0	13.5	18.0	24.7	31.4	42.6	42.6	62.8	83.0	96.5
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	9.0	9.0	11.2	13.5	22.4
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°	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7	10064.7
2.5°	10019.8	9950.2	9952.5	9965.9	9923.3	9858.2	9815.6	9761.7	9728.1	9721.3	9746.0
5°	9876.2	9795.4	9739.3	9681.0	9559.8	9416.1	9303.9	9211.9	9151.3	9128.9	9102.0
7.5°	9678.7	9573.2	9431.9	9268.0	9048.1	8792.3	8612.8	8444.5	8327.8	8294.1	8278.4
10°	9481.2	9328.6	9077.3	8772.1	8406.3	8060.7	7735.3	7486.2	7288.8	7176.6	7212.5
12.5°	9277.0	9088.5	8695.8	8226.8	7717.4	7196.8	6770.4	6357.5	6038.8	5879.5	5832.4
15°	9097.5	8841.7	8294.1	7659.0	6981.3	6326.1	5708.9	5089.6	4685.6	4465.7	4405.1
17.5°	8944.9	8612.8	7870.0	7080.1	6270.0	5336.4	4577.9	4003.4	3727.4	3606.2	3597.3
20°	8794.5	8388.4	7450.3	6456.2	5448.6	4402.9	3725.2	3455.9	3357.1	3314.5	3312.3
22.5°	8659.9	8152.7	7008.3	5832.4	4631.8	3700.5	3328.0	3211.3	3184.3	3184.3	3179.9
25°	8545.4	7917.1	6555.0	5170.4	3893.5	3294.3	3121.5	3072.1	3083.4	3103.6	3105.8
27.5°	8498.3	7733.1	6117.4	4490.4	3384.1	3058.7	2980.1	2973.4	3004.8	3036.2	3040.7
30°	8547.7	7607.4	5668.5	3839.6	3078.9	2915.1	2879.2	2892.6	2930.8	2962.2	2962.2
32.5°	8700.3	7544.6	5210.7	3363.9	2901.6	2814.1	2802.9	2816.3	2845.5	2863.4	2865.7
35°	8958.4	7569.3	4737.2	3043.0	2787.1	2740.0	2737.8	2746.8	2758.0	2769.2	2771.4
37.5°	9283.7	7679.2	4230.1	2856.7	2713.1	2686.2	2681.7	2679.4	2681.7	2681.7	2683.9
40°	9602.4	7845.3	3776.8	2746.8	2661.5	2639.0	2627.8	2612.1	2609.9	2605.4	2603.1
42.5°	9838.0	7973.2	3415.5	2668.2	2614.4	2587.4	2574.0	2549.3	2547.0	2544.8	2542.5
45°	10015.3	8080.9	3114.8	2591.9	2565.0	2540.3	2511.1	2488.7	2493.2	2497.7	2497.7
47.5°	10215.0	8175.2	2894.9	2520.1	2504.4	2479.7	2443.8	2428.1	2443.8	2459.5	2459.5
50°	10457.4	8307.6	2715.3	2448.3	2441.6	2412.4	2381.0	2374.2	2392.2	2414.6	2414.6
52.5°	10634.7	8422.0	2587.4	2376.5	2376.5	2338.3	2311.4	2309.2	2329.4	2351.8	2354.0
55°	10966.8	8689.1	2542.5	2293.4	2284.5	2255.3	2235.1	2219.4	2244.1	2264.3	2264.3
57.5°	11341.6	9043.6	2553.8	2174.5	2163.3	2154.3	2138.6	2120.7	2127.4	2149.8	2152.1
60°	10547.2	8356.9	2430.3	2055.6	2048.8	2044.4	2024.2	1992.7	2001.7	2019.7	2021.9
62.5°	7367.3	5554.1	1965.8	1907.5	1929.9	1927.7	1900.7	1864.8	1867.1	1891.8	1891.8
65°	3823.9	3004.8	1725.7	1772.8	1806.5	1793.0	1748.1	1716.7	1712.2	1743.6	1736.9
67.5°	1649.4	1640.4	1570.9	1631.4	1667.3	1638.2	1591.1	1539.4	1543.9	1555.1	1546.2
70°	1328.5	1368.9	1398.1	1463.1	1492.3	1438.5	1386.8	1357.7	1333.0	1330.7	1315.0
72.5°	1061.4	1117.6	1182.6	1250.0	1258.9	1205.1	1140.0	1113.1	1074.9	1072.7	1057.0
75°	798.9	846.0	897.6	951.5	951.5	899.9	857.2	843.8	798.9	785.4	772.0
77.5°	545.3	574.5	614.9	628.3	641.8	621.6	579.0	556.5	504.9	491.5	473.5
80°	343.3	363.5	388.2	397.2	410.7	386.0	352.3	327.6	291.7	280.5	271.5
82.5°	206.5	219.9	235.6	240.1	251.3	233.4	202.0	184.0	163.8	154.8	148.1
85°	105.5	112.2	121.2	123.4	121.2	103.2	92.0	83.0	69.6	67.3	62.8
87.5°	26.9	31.4	33.7	31.4	29.2	22.4	15.7	11.2	4.5	4.5	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)