

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: P637865

Luminaire Tested: GWS-SA4D-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 21043.2 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

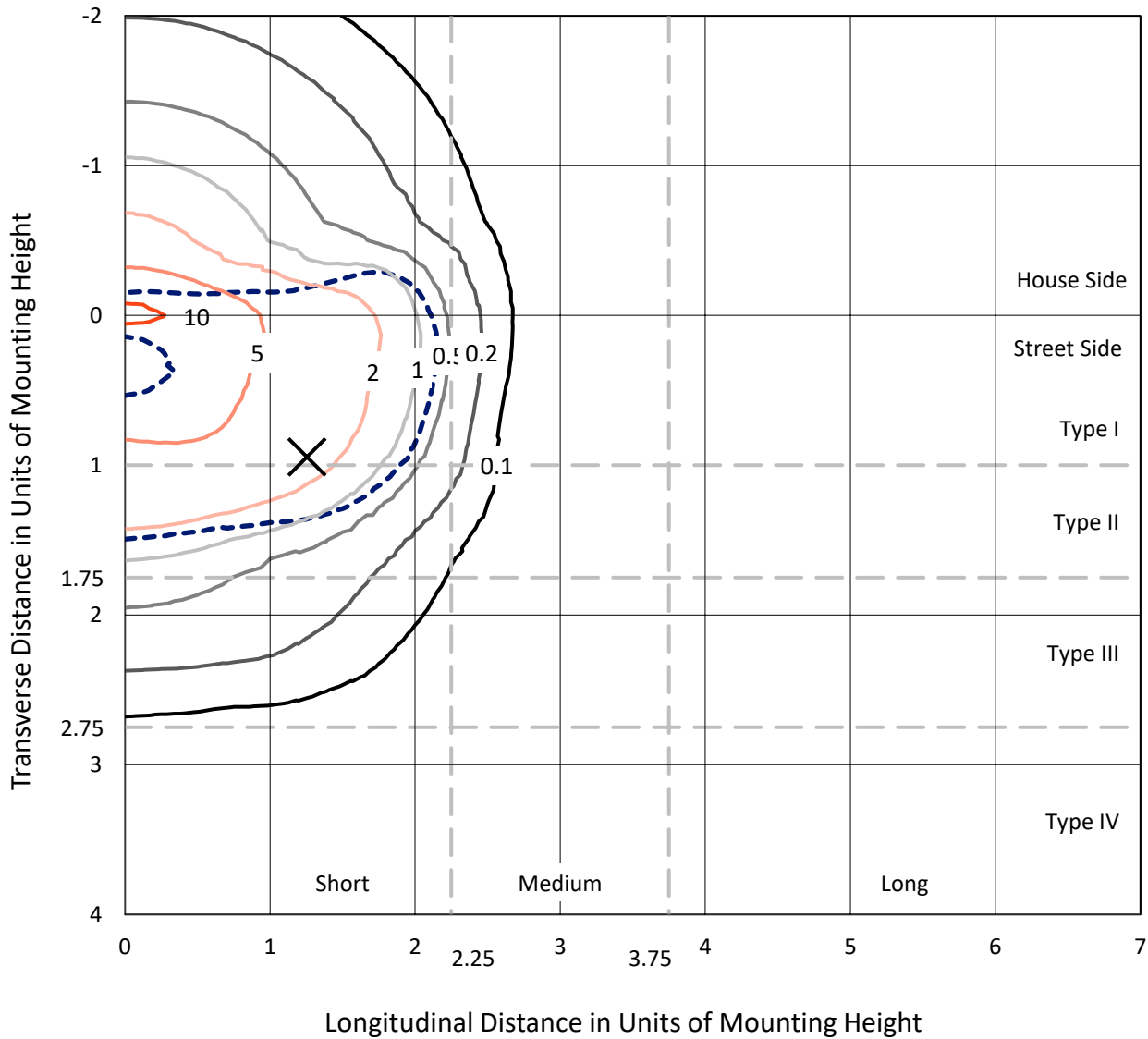
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

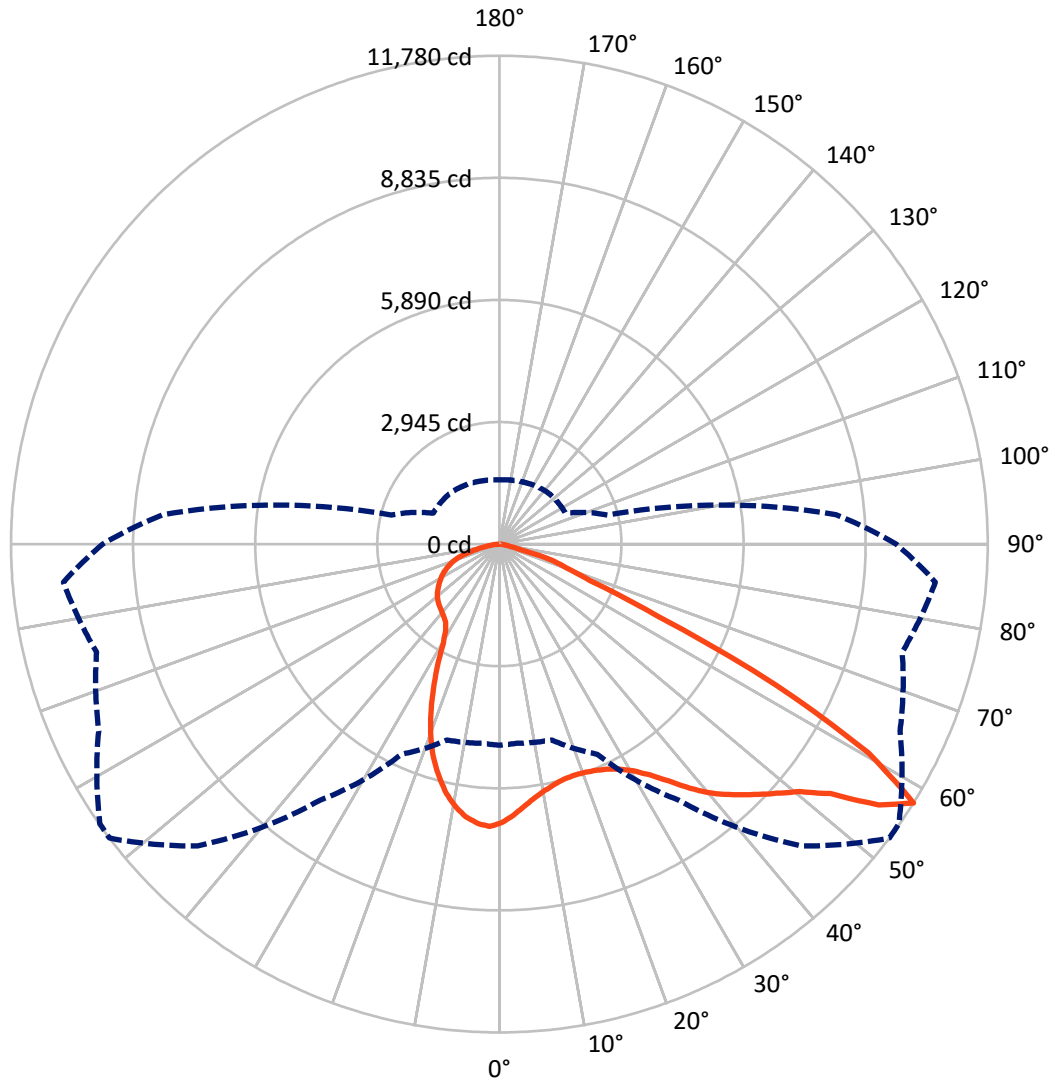
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6579.4	0.0	6579.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	14463.8	0.0	14463.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	21043.2	0.0	21043.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.7	2.9
10°-20°	1594.2	7.6
20°-30°	2348.8	11.2
30°-40°	3287.8	15.6
40°-50°	4322.0	20.5
50°-60°	5067.6	24.1
60°-70°	2985.4	14.2
70°-80°	742.7	3.5
80°-90°	87.1	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°	21043.2	100.0
0°-180°	21043.2	100.0

Coefficient of Utilization



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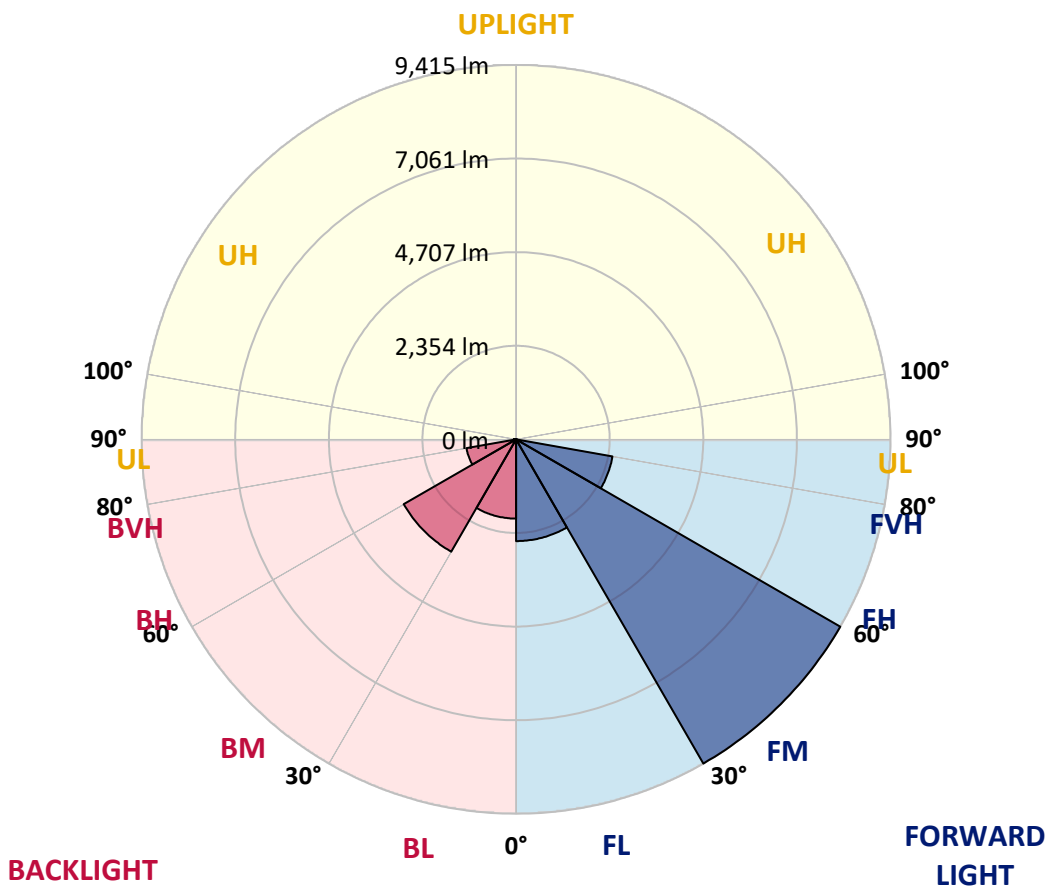
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2558.4	12.2			
FM (30°-60°)	9414.9	44.7			
FH (60°-80°)	2461.3	11.7			G2/5000
FVH (80°-90°)	29.2	0.1			G1/100
BL (0°-30°)	1992.3	9.5	B3/2500		
BM (30°-60°)	3262.4	15.5	B3/5000		
BH (60°-80°)	1266.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	58.0	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°	53°	55°	65°	75°	85°
0°	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7
2.5°	6333.6	6351.3	6354.8	6409.7	6413.3	6493.0	6546.1	6535.5	6590.4	6657.7	6710.8
5°	6030.7	6032.5	6050.2	6115.7	6151.1	6255.6	6344.2	6344.2	6450.5	6588.6	6707.3
7.5°	5781.0	5779.2	5795.1	5867.7	5926.2	6051.9	6172.4	6186.6	6335.3	6537.2	6730.3
10°	5548.9	5561.3	5579.1	5667.6	5742.0	5897.9	6041.3	6064.3	6252.1	6501.8	6762.2
12.5°	5400.2	5401.9	5428.5	5527.7	5623.3	5789.8	5940.4	5968.7	6184.8	6468.2	6785.2
15°	5304.5	5306.3	5334.6	5444.4	5556.0	5724.3	5878.4	5910.3	6145.8	6462.8	6829.5
17.5°	5262.0	5260.3	5286.8	5396.6	5518.8	5694.2	5858.9	5897.9	6163.5	6503.6	6907.4
20°	5262.0	5263.8	5278.0	5377.1	5501.1	5687.1	5878.4	5926.2	6232.6	6595.7	7027.8
22.5°	5336.4	5343.5	5350.6	5417.9	5515.3	5697.7	5929.7	5993.5	6381.4	6749.8	7185.5
25°	5481.6	5483.4	5490.5	5545.4	5589.7	5727.8	6014.8	6110.4	6613.4	6974.7	7383.8
27.5°	5676.5	5701.3	5708.3	5743.8	5743.8	5802.2	6147.6	6285.7	6926.9	7298.8	7637.1
30°	5949.2	5958.1	5970.5	6009.4	5966.9	5942.1	6342.4	6519.5	7290.0	7690.2	7941.7
32.5°	6188.3	6207.8	6275.1	6338.9	6262.7	6184.8	6629.3	6838.3	7638.9	8097.6	8265.9
35°	6392.0	6439.8	6569.1	6710.8	6657.7	6579.7	7010.1	7228.0	7925.8	8389.8	8552.8
37.5°	6638.2	6675.4	6852.5	7082.7	7130.6	7093.4	7474.2	7630.0	8117.1	8464.2	8708.6
40°	6887.9	6944.6	7173.1	7491.9	7674.3	7700.9	7902.8	8007.3	8182.6	8319.0	8678.5
42.5°	7143.0	7240.4	7553.9	7925.8	8249.9	8310.1	8264.1	8308.4	8161.4	8118.9	8538.6
45°	7454.7	7569.8	7924.0	8398.7	8825.5	8919.4	8618.3	8577.6	8157.8	8042.7	8451.8
47.5°	7823.1	7938.2	8276.5	8829.1	9374.6	9443.7	8981.4	8907.0	8281.8	8159.6	8568.7
50°	8149.0	8228.7	8531.5	9149.7	9886.4	9927.2	9381.7	9291.3	8590.0	8483.7	8933.6
52.5°	7817.8	7808.9	8127.7	8889.3	10152.1	10642.7	9998.0	9911.2	9185.1	9022.1	9498.6
55°	6632.9	6531.9	6817.1	7566.3	9410.0	11278.5	11103.2	10929.6	9978.5	9564.1	10028.1
57.5°	4849.4	4821.0	4890.1	5593.2	7537.9	10293.8	11779.8	11763.8	10664.0	10060.0	10555.9
60°	3792.0	3749.5	3565.3	3584.8	5138.0	8040.9	10223.0	10692.3	11089.0	10357.6	10924.3
62.5°	3366.9	3335.0	3239.4	2975.5	3060.5	5391.3	7493.6	7924.0	9689.8	9147.9	9383.4
65°	2787.8	2778.9	2858.6	2848.0	2564.6	2977.3	4229.5	4663.4	6092.7	6168.8	6092.7
67.5°	2026.2	2010.2	2212.1	2610.6	2469.0	2247.6	2357.4	2507.9	3124.3	2805.5	2525.6
70°	1317.7	1294.7	1411.6	1886.3	2210.4	1958.9	1698.5	1673.7	1718.0	1068.0	1154.8
72.5°	883.8	857.2	855.5	1037.9	1335.4	1319.5	1315.9	1303.6	1163.6	843.1	935.2
75°	492.4	471.1	465.8	448.1	478.2	487.1	518.9	536.7	580.9	639.4	708.5
77.5°	83.2	81.5	102.7	131.1	180.7	232.0	286.9	302.9	373.7	442.8	487.1
80°	46.0	47.8	62.0	76.2	101.0	138.1	177.1	187.7	230.2	267.4	302.9
82.5°	24.8	24.8	31.9	40.7	54.9	72.6	95.6	104.5	132.8	155.9	180.7
85°	8.9	8.9	12.4	15.9	23.0	30.1	37.2	42.5	58.4	79.7	90.3
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.1	7.1	8.9	15.9	23.0
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°	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7	6719.7
2.5°	6755.1	6707.3	6772.8	6802.9	6813.5	6820.6	6774.6	6742.7	6732.1	6698.4	6678.9
5°	6779.9	6748.0	6810.0	6810.0	6765.7	6719.7	6625.8	6560.3	6514.2	6459.3	6450.5
7.5°	6822.4	6799.4	6833.0	6763.9	6652.4	6528.4	6365.4	6237.9	6135.2	6067.9	6069.7
10°	6879.1	6850.7	6824.2	6670.1	6466.4	6237.9	5988.2	5802.2	5632.2	5554.3	5511.8
12.5°	6916.3	6875.5	6763.9	6508.9	6209.6	5903.2	5550.7	5274.4	5028.2	4916.7	4907.8
15°	6962.3	6887.9	6664.8	6299.9	5883.7	5465.7	5012.3	4628.0	4295.0	4121.4	4112.6
17.5°	7022.5	6900.3	6546.1	6060.8	5540.1	4923.7	4353.4	3869.9	3515.7	3381.1	3404.1
20°	7107.5	6914.5	6411.5	5795.1	5113.2	4307.4	3597.2	3152.6	3016.2	3007.4	2989.7
22.5°	7203.2	6923.3	6262.7	5497.6	4596.1	3650.3	2972.0	2782.4	2780.7	2825.0	2835.6
25°	7311.2	6930.4	6094.5	5150.4	4036.4	2995.0	2628.4	2571.7	2616.0	2699.2	2709.8
27.5°	7449.4	6944.6	5890.8	4769.6	3441.3	2587.6	2438.8	2424.7	2477.8	2555.7	2552.2
30°	7653.0	6996.0	5674.7	4332.2	2830.3	2394.6	2323.7	2325.5	2346.7	2383.9	2389.3
32.5°	7860.3	7075.7	5463.9	3839.8	2479.6	2284.8	2252.9	2249.3	2249.3	2265.3	2268.8
35°	8056.9	7166.0	5235.5	3326.2	2309.6	2221.0	2199.7	2189.1	2183.8	2180.3	2174.9
37.5°	8166.7	7210.3	5012.3	2819.6	2219.2	2178.5	2157.2	2143.1	2123.6	2109.4	2105.9
40°	8118.9	7158.9	4753.7	2440.6	2164.3	2137.8	2113.0	2093.5	2066.9	2054.5	2047.4
42.5°	7959.5	6999.5	4472.1	2261.7	2120.0	2093.5	2063.4	2031.5	2013.8	2003.1	2001.4
45°	7791.2	6806.4	4132.0	2157.2	2077.5	2045.7	2010.2	1974.8	1955.3	1950.0	1948.2
47.5°	7785.9	6710.8	3770.7	2074.0	2026.2	1994.3	1950.0	1914.6	1893.3	1886.3	1879.2
50°	8019.7	6808.2	3363.4	2001.4	1973.0	1939.4	1889.8	1850.8	1824.3	1815.4	1813.6
52.5°	8505.0	7174.8	2998.5	1928.8	1902.2	1863.2	1822.5	1783.5	1751.6	1735.7	1733.9
55°	9029.2	7640.6	2771.8	1854.4	1818.9	1785.3	1748.1	1705.6	1670.2	1645.4	1641.8
57.5°	9571.2	8149.0	2702.7	1760.5	1733.9	1710.9	1666.6	1620.6	1579.8	1556.8	1551.5
60°	10017.5	8586.4	2832.0	1661.3	1647.1	1617.0	1576.3	1532.0	1503.7	1486.0	1482.4
62.5°	8386.3	6990.6	2286.5	1553.3	1553.3	1521.4	1475.4	1443.5	1424.0	1411.6	1408.0
65°	5322.2	4328.6	1560.4	1445.2	1443.5	1401.0	1362.0	1340.7	1331.9	1312.4	1308.9
67.5°	2318.4	1978.4	1333.7	1335.4	1328.3	1282.3	1243.3	1227.4	1209.7	1188.4	1186.7
70°	1202.6	1225.6	1193.7	1213.2	1200.8	1145.9	1108.7	1083.9	1046.7	1025.5	1027.3
72.5°	970.6	995.4	1030.8	1060.9	1034.3	990.1	931.6	901.5	853.7	830.7	832.4
75°	740.3	766.9	800.6	832.4	811.2	756.3	719.1	689.0	634.1	607.5	612.8
77.5°	510.1	524.3	565.0	563.2	556.1	540.2	485.3	449.9	393.2	361.3	364.9
80°	317.0	325.9	345.4	354.2	350.7	329.4	285.2	258.6	224.9	205.5	207.2
82.5°	191.3	196.6	214.3	216.1	214.3	198.4	164.7	145.2	124.0	113.4	113.4
85°	97.4	101.0	111.6	111.6	101.0	85.0	76.2	67.3	54.9	49.6	49.6
87.5°	26.6	26.6	33.7	28.3	23.0	21.3	10.6	8.9	3.5	1.8	1.8
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)