

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: P637810

Luminaire Tested: GWS-SA4D-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637810
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21335.6 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

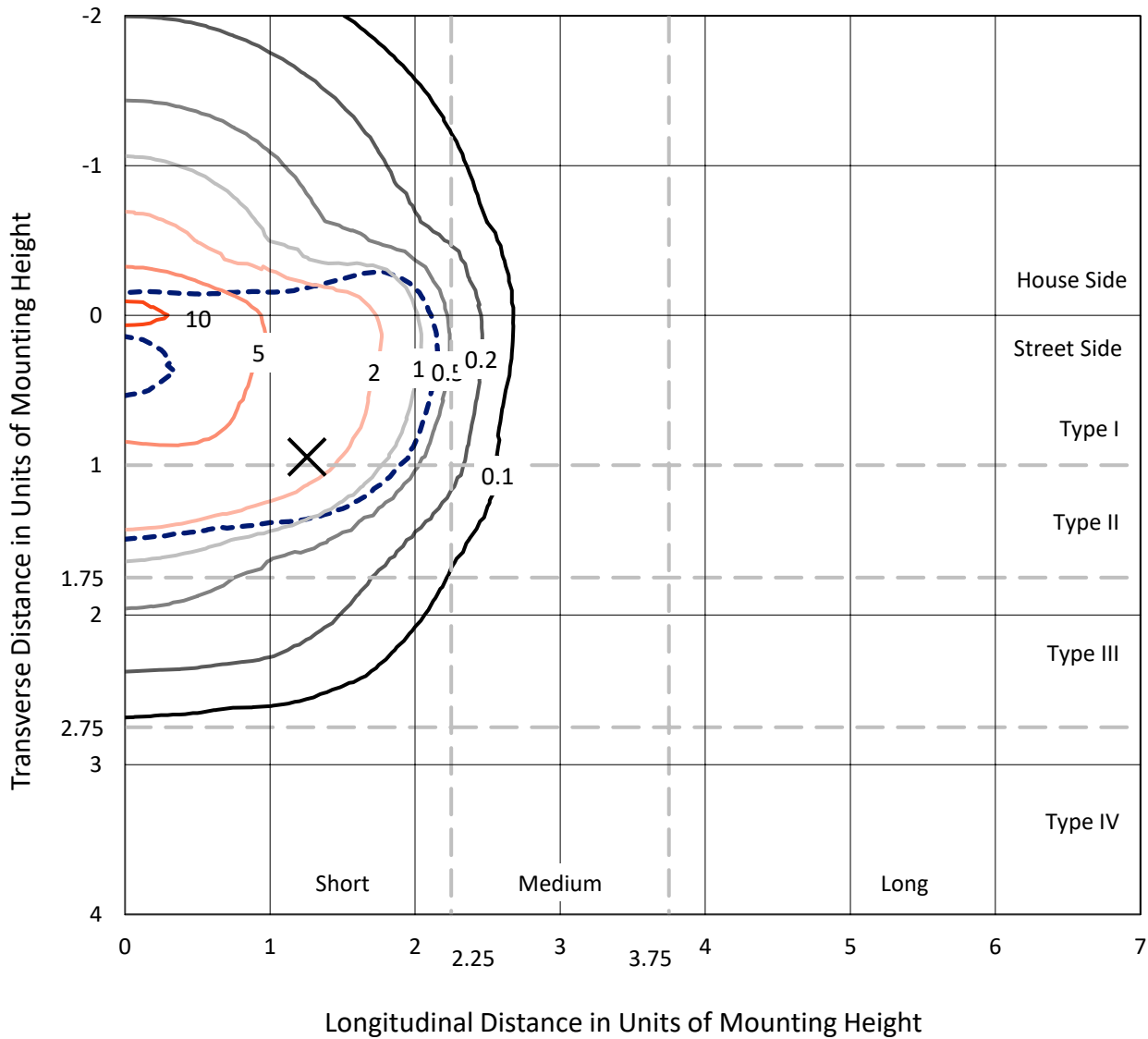
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

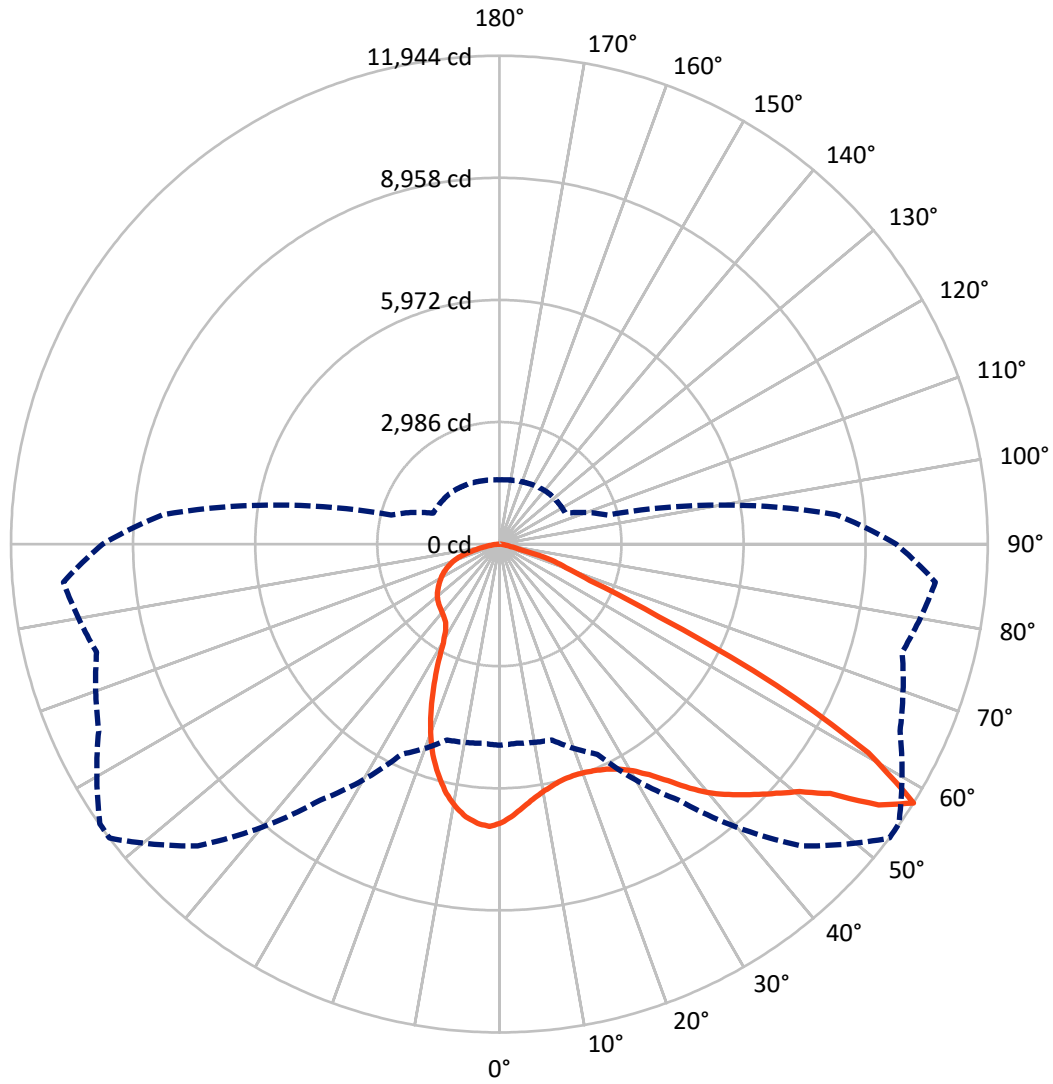
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	6670.8	0.0	6670.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	14664.7	0.0	14664.7
	% Fixture	68.7	0.0	68.7
Total	Lumens	21335.6	0.0	21335.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.1	2.9
10°-20°	1616.4	7.6
20°-30°	2381.5	11.2
30°-40°	3333.4	15.6
40°-50°	4382.1	20.5
50°-60°	5138.0	24.1
60°-70°	3026.8	14.2
70°-80°	753.0	3.5
80°-90°	88.3	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°	21335.6	100.0
0°-180°	21335.6	100.0

Coefficient of Utilization



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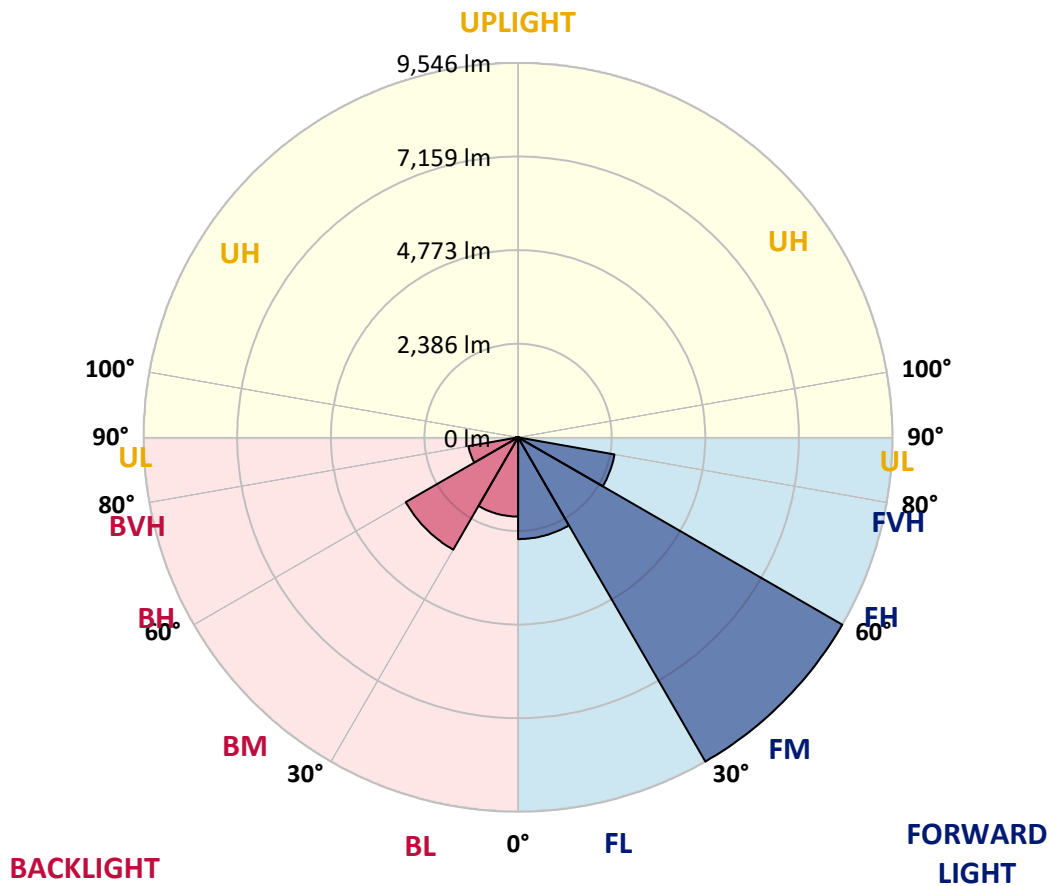
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2594.0	12.2			
FM (30°-60°)	9545.7	44.7			
FH (60°-80°)	2495.5	11.7			G2/5000
FVH (80°-90°)	29.6	0.1			G1/100
BL (0°-30°)	2020.0	9.5	B3/2500		
BM (30°-60°)	3307.8	15.5	B3/5000		
BH (60°-80°)	1284.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	58.8	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°	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0
2.5°	6421.6	6439.5	6443.1	6498.8	6502.4	6583.2	6637.1	6626.3	6681.9	6750.2	6804.1
5°	6114.5	6116.3	6134.2	6200.7	6236.6	6342.5	6432.3	6432.3	6540.1	6680.1	6800.5
7.5°	5861.3	5859.5	5875.7	5949.3	6008.5	6136.0	6258.2	6272.5	6423.4	6628.1	6823.8
10°	5626.1	5638.6	5656.6	5746.4	5821.8	5979.8	6125.3	6148.6	6339.0	6592.2	6856.1
12.5°	5475.2	5477.0	5503.9	5604.5	5701.5	5870.3	6022.9	6051.6	6270.7	6558.0	6879.5
15°	5378.2	5380.0	5408.8	5520.1	5633.2	5803.8	5960.1	5992.4	6231.2	6552.7	6924.4
17.5°	5335.1	5333.3	5360.3	5471.6	5595.5	5773.3	5940.3	5979.8	6249.2	6594.0	7003.4
20°	5335.1	5336.9	5351.3	5451.9	5577.6	5766.1	5960.1	6008.5	6319.2	6687.3	7125.5
22.5°	5410.6	5417.7	5424.9	5493.2	5591.9	5776.9	6012.1	6076.8	6470.0	6843.6	7285.3
25°	5557.8	5559.6	5566.8	5622.5	5667.4	5807.4	6098.3	6195.3	6705.3	7071.6	7486.4
27.5°	5755.3	5780.5	5787.7	5823.6	5823.6	5882.8	6233.0	6373.1	7023.1	7400.2	7743.2
30°	6031.9	6040.9	6053.4	6092.9	6049.8	6024.7	6430.5	6610.1	7391.3	7797.1	8052.1
32.5°	6274.3	6294.1	6362.3	6426.9	6349.7	6270.7	6721.5	6933.3	7745.0	8210.1	8380.7
35°	6480.8	6529.3	6660.4	6804.1	6750.2	6671.2	7107.5	7328.4	8035.9	8506.4	8671.6
37.5°	6730.4	6768.1	6947.7	7181.2	7229.6	7191.9	7578.0	7736.0	8229.9	8581.8	8829.6
40°	6983.6	7041.1	7272.7	7596.0	7780.9	7807.9	8012.6	8118.5	8296.3	8434.6	8799.1
42.5°	7242.2	7341.0	7658.8	8035.9	8364.6	8425.6	8378.9	8423.8	8274.8	8231.7	8657.3
45°	7558.3	7675.0	8034.1	8515.4	8948.2	9043.3	8738.1	8696.8	8271.2	8154.5	8569.3
47.5°	7931.8	8048.5	8391.5	8951.8	9504.8	9574.9	9106.2	9030.8	8396.9	8273.0	8687.8
50°	8262.2	8343.0	8650.1	9276.8	10023.8	10065.1	9512.0	9420.4	8709.3	8601.6	9057.7
52.5°	7926.4	7917.4	8240.6	9012.8	10293.2	10790.6	10136.9	10049.0	9312.7	9147.5	9630.5
55°	6725.0	6622.7	6911.8	7671.4	9540.8	11435.3	11257.5	11081.5	10117.2	9697.0	10167.5
57.5°	4916.7	4888.0	4958.0	5670.9	7642.7	10436.8	11943.5	11927.3	10812.1	10199.8	10702.6
60°	3844.7	3801.6	3614.8	3634.6	5209.4	8152.7	10365.0	10840.9	11243.1	10501.5	11076.1
62.5°	3413.7	3381.4	3284.4	3016.8	3103.0	5466.2	7597.8	8034.1	9824.5	9275.0	9513.8
65°	2826.5	2817.5	2898.3	2887.5	2600.2	3018.6	4288.2	4728.2	6177.3	6254.6	6177.3
67.5°	2054.3	2038.2	2242.9	2646.9	2503.3	2278.8	2390.1	2542.8	3167.7	2844.5	2560.7
70°	1336.0	1312.7	1431.2	1912.5	2241.1	1986.1	1722.1	1697.0	1741.9	1082.8	1170.8
72.5°	896.1	869.1	867.3	1052.3	1354.0	1337.8	1334.2	1321.7	1179.8	854.8	948.2
75°	499.2	477.7	472.3	454.3	484.8	493.8	526.2	544.1	589.0	648.3	718.3
77.5°	84.4	82.6	104.2	132.9	183.2	235.2	290.9	307.1	378.9	448.9	493.8
80°	46.7	48.5	62.9	77.2	102.4	140.1	179.6	190.3	233.4	271.2	307.1
82.5°	25.1	25.1	32.3	41.3	55.7	73.6	97.0	105.9	134.7	158.0	183.2
85°	9.0	9.0	12.6	16.2	23.3	30.5	37.7	43.1	59.3	80.8	91.6
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	7.2	9.0	16.2	23.3
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°	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0	6813.0
2.5°	6848.9	6800.5	6866.9	6897.4	6908.2	6915.4	6868.7	6836.4	6825.6	6791.5	6771.7
5°	6874.1	6841.8	6904.6	6904.6	6859.7	6813.0	6717.9	6651.4	6604.7	6549.1	6540.1
7.5°	6917.2	6893.8	6928.0	6857.9	6744.8	6619.1	6453.9	6324.6	6220.4	6152.2	6154.0
10°	6974.7	6945.9	6919.0	6762.8	6556.2	6324.6	6071.4	5882.8	5710.4	5631.4	5588.3
12.5°	7012.4	6971.1	6857.9	6599.3	6295.9	5985.2	5627.8	5347.7	5098.1	4985.0	4976.0
15°	7059.0	6983.6	6757.4	6387.4	5965.4	5541.7	5081.9	4692.3	4354.7	4178.7	4169.7
17.5°	7120.1	6996.2	6637.1	6145.0	5617.1	4992.2	4413.9	3923.7	3564.5	3428.1	3451.4
20°	7206.3	7010.6	6500.6	5875.7	5184.3	4367.2	3647.1	3196.4	3058.1	3049.2	3031.2
22.5°	7303.3	7019.5	6349.7	5574.0	4659.9	3701.0	3013.2	2821.1	2819.3	2864.2	2875.0
25°	7412.8	7026.7	6179.1	5222.0	4092.5	3036.6	2664.9	2607.4	2652.3	2736.7	2747.5
27.5°	7552.9	7041.1	5972.6	4835.9	3489.1	2623.6	2472.7	2458.4	2512.2	2591.3	2587.7
30°	7759.4	7093.2	5753.5	4392.4	2869.6	2427.8	2356.0	2357.8	2379.4	2417.1	2422.5
32.5°	7969.5	7174.0	5539.9	3893.2	2514.0	2316.5	2284.2	2280.6	2280.6	2296.8	2300.3
35°	8168.8	7265.6	5308.2	3372.4	2341.6	2251.9	2230.3	2219.5	2214.1	2210.6	2205.2
37.5°	8280.2	7310.5	5081.9	2858.8	2250.1	2208.8	2187.2	2172.8	2153.1	2138.7	2135.1
40°	8231.7	7258.4	4819.8	2474.5	2194.4	2167.5	2142.3	2122.6	2095.6	2083.1	2075.9
42.5°	8070.1	7096.8	4534.2	2293.2	2149.5	2122.6	2092.0	2059.7	2041.8	2031.0	2029.2
45°	7899.5	6901.0	4189.5	2187.2	2106.4	2074.1	2038.2	2002.2	1982.5	1977.1	1975.3
47.5°	7894.1	6804.1	3823.1	2102.8	2054.3	2022.0	1977.1	1941.2	1919.6	1912.5	1905.3
50°	8131.1	6902.8	3410.1	2029.2	2000.5	1966.3	1916.1	1876.5	1849.6	1840.6	1838.8
52.5°	8623.1	7274.5	3040.2	1955.6	1928.6	1889.1	1847.8	1808.3	1776.0	1759.8	1758.0
55°	9154.7	7746.8	2810.3	1880.1	1844.2	1810.1	1772.4	1729.3	1693.4	1668.2	1664.6
57.5°	9704.2	8262.2	2740.3	1785.0	1758.0	1734.7	1689.8	1643.1	1601.8	1578.5	1573.1
60°	10156.7	8705.7	2871.4	1684.4	1670.0	1639.5	1598.2	1553.3	1524.6	1506.6	1503.0
62.5°	8502.8	7087.8	2318.3	1574.9	1574.9	1542.5	1495.9	1463.5	1443.8	1431.2	1427.6
65°	5396.2	4388.8	1582.0	1465.3	1463.5	1420.4	1380.9	1359.4	1350.4	1330.6	1327.1
67.5°	2350.6	2005.8	1352.2	1354.0	1346.8	1300.1	1260.6	1244.4	1226.5	1204.9	1203.1
70°	1219.3	1242.7	1210.3	1230.1	1217.5	1161.8	1124.1	1099.0	1061.3	1039.7	1041.5
72.5°	984.1	1009.2	1045.1	1075.6	1048.7	1003.8	944.6	914.0	865.5	842.2	844.0
75°	750.6	777.6	811.7	844.0	822.4	766.8	729.1	698.5	642.9	615.9	621.3
77.5°	517.2	531.5	572.8	571.0	563.9	547.7	492.0	456.1	398.7	366.3	369.9
80°	321.4	330.4	350.2	359.1	355.6	334.0	289.1	262.2	228.1	208.3	210.1
82.5°	193.9	199.3	217.3	219.1	217.3	201.1	167.0	147.3	125.7	114.9	114.9
85°	98.8	102.4	113.1	113.1	102.4	86.2	77.2	68.2	55.7	50.3	50.3
87.5°	26.9	26.9	34.1	28.7	23.3	21.5	10.8	9.0	3.6	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)