

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: P637869

Luminaire Tested: GWS-SA4D-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637869
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-SA4D-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20690.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

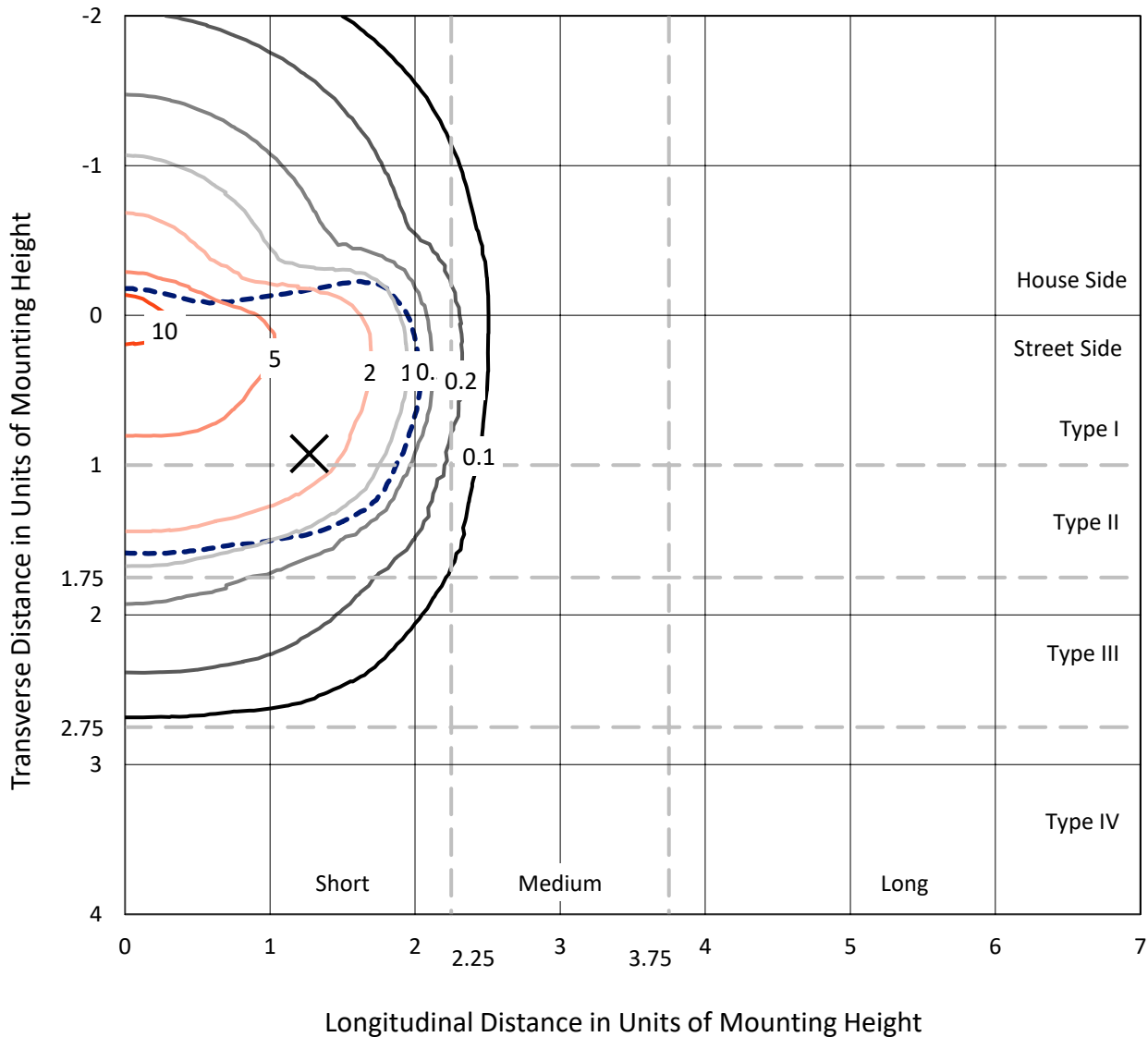
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

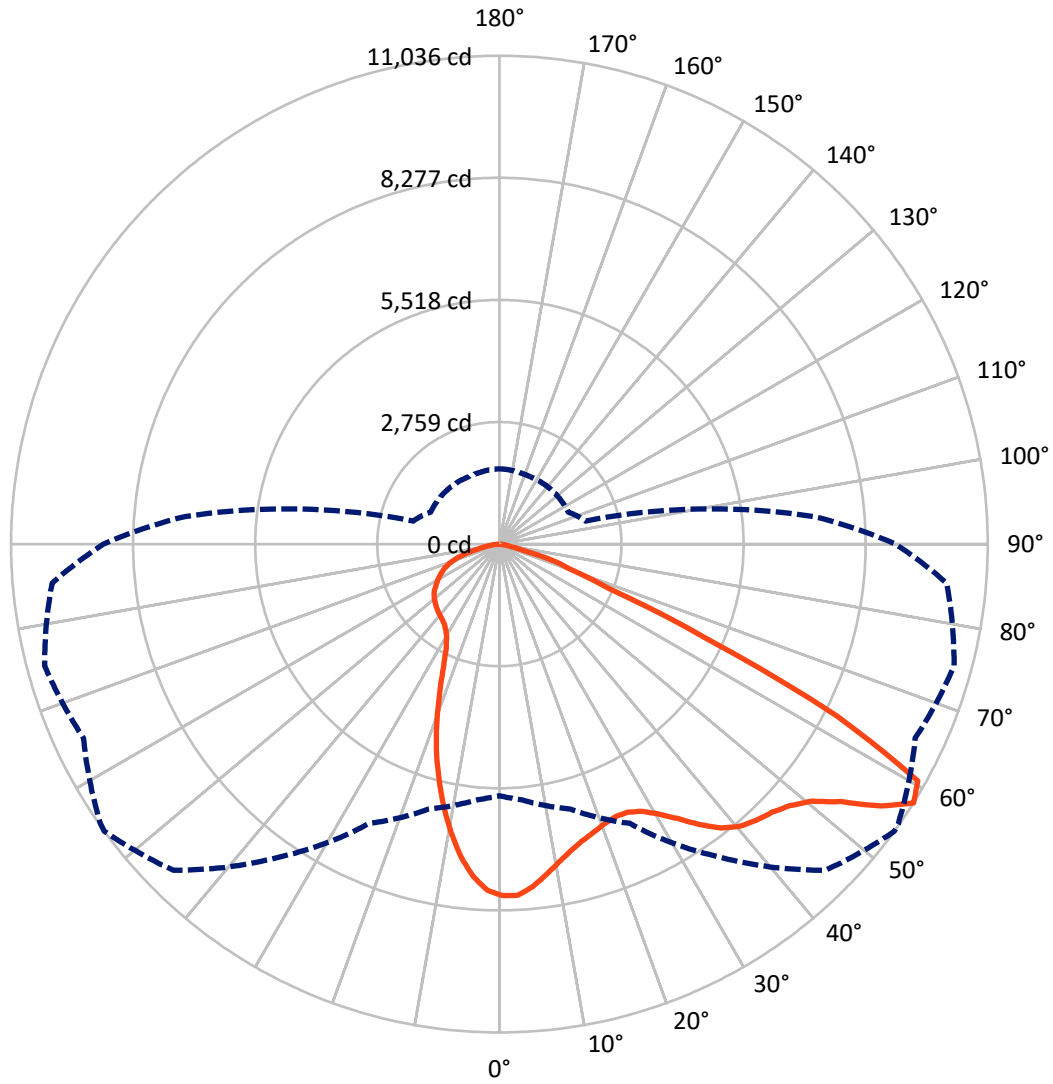
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	6015.0	0.0	6015.0
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	14675.7	0.0	14675.7
	% Fixture	70.9	0.0	70.9
Total	Lumens	20690.7	0.0	20690.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.2	3.4
10°-20°	1666.1	8.1
20°-30°	2305.6	11.1
30°-40°	3203.6	15.5
40°-50°	4231.0	20.4
50°-60°	5028.0	24.3
60°-70°	2785.6	13.5
70°-80°	693.7	3.4
80°-90°	78.9	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°	20690.7	100.0
0°-180°	20690.7	100.0

Coefficient of Utilization



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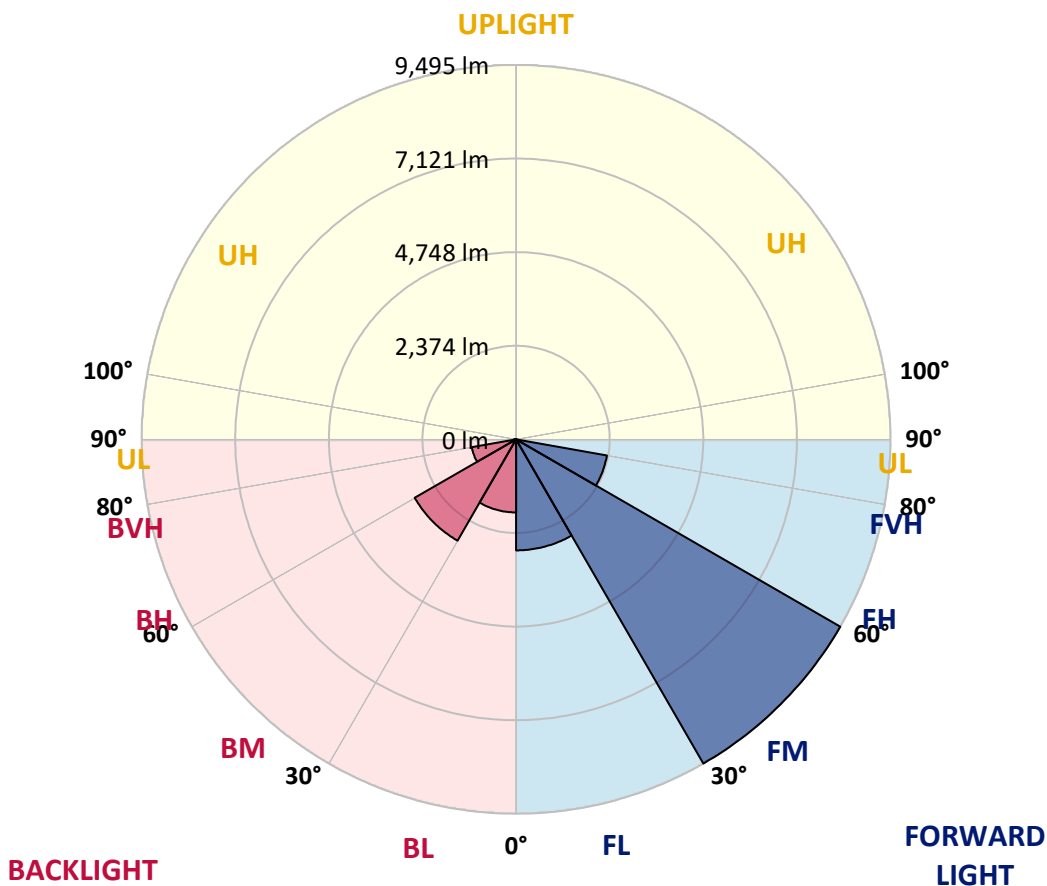
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2816.3	13.6			
FM (30°-60°)	9495.3	45.9			
FH (60°-80°)	2339.4	11.3			G2/5000
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	1853.6	9.0	B3/2500		
BM (30°-60°)	2967.4	14.3	B3/5000		
BH (60°-80°)	1139.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	54.2	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°	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6
2.5°	7794.9	7810.8	7821.4	7858.6	7890.5	7918.8	7948.9	7948.9	7947.2	7941.9	7931.2
5°	7486.7	7504.4	7529.2	7580.5	7649.6	7699.2	7780.7	7787.8	7823.2	7837.4	7830.3
7.5°	7128.9	7134.2	7166.1	7233.4	7343.2	7431.8	7548.7	7562.8	7647.8	7697.4	7688.6
10°	6737.5	6719.8	6776.4	6875.6	7019.1	7167.9	7318.4	7330.8	7467.2	7561.1	7554.0
12.5°	6379.7	6381.5	6438.1	6558.6	6737.5	6921.7	7123.6	7151.9	7320.2	7440.6	7428.2
15°	6080.4	6087.5	6156.5	6292.9	6496.6	6716.2	6967.7	6994.3	7206.8	7366.2	7330.8
17.5°	5841.3	5848.4	5908.6	6064.4	6282.3	6548.0	6854.4	6880.9	7144.8	7334.4	7261.7
20°	5676.6	5673.0	5731.5	5880.2	6105.2	6393.9	6755.2	6794.2	7125.4	7346.8	7215.7
22.5°	5609.2	5607.5	5650.0	5772.2	5983.0	6275.2	6695.0	6748.1	7146.6	7401.7	7187.3
25°	5642.9	5635.8	5673.0	5763.3	5931.6	6229.2	6712.7	6769.4	7236.9	7515.0	7192.7
27.5°	5747.4	5738.5	5770.4	5851.9	5979.4	6277.0	6836.7	6902.2	7428.2	7722.2	7263.5
30°	5906.8	5901.5	5933.4	6011.3	6122.9	6436.4	7074.0	7148.4	7724.0	8044.6	7417.6
32.5°	6092.8	6083.9	6140.6	6230.9	6360.2	6726.8	7392.8	7490.2	8074.7	8459.0	7676.2
35°	6301.8	6294.7	6372.6	6503.7	6689.7	7130.7	7778.9	7885.2	8432.5	8928.4	8019.8
37.5°	6505.5	6505.5	6656.0	6850.8	7084.6	7569.9	8142.0	8209.3	8680.4	9344.6	8388.2
40°	6686.1	6696.7	6923.4	7215.7	7513.2	7966.7	8381.1	8437.8	8790.2	9631.5	8708.8
42.5°	6886.3	6895.1	7159.0	7541.6	7895.8	8287.2	8526.3	8554.7	8811.5	9775.0	8935.5
45°	7045.7	7058.1	7385.7	7794.9	8228.8	8528.1	8641.5	8666.3	8841.6	9852.9	9100.2
47.5°	7128.9	7146.6	7522.1	7998.5	8453.7	8744.2	8831.0	8841.6	8965.6	9989.3	9298.6
50°	7114.7	7150.2	7573.5	8099.5	8620.2	8962.0	9135.6	9153.3	9218.9	10189.5	9530.6
52.5°	7240.5	7256.4	7683.3	8219.9	8857.5	9364.1	9665.2	9690.0	9659.9	10340.0	9668.7
55°	7031.5	7107.6	7546.9	8202.2	9218.9	9985.8	10449.8	10437.4	10060.2	10508.3	9899.0
57.5°	5687.2	5798.8	6200.8	6962.4	8623.8	10421.5	11036.1	11006.0	10370.1	10637.6	10148.7
60°	3937.3	3955.0	4318.1	4858.3	6656.0	9206.5	10864.3	10929.8	10426.8	10474.6	9686.4
62.5°	3149.1	3143.8	3177.5	3191.6	4233.1	6471.8	8575.9	8815.0	8662.7	8161.5	6865.0
65°	2688.6	2708.1	2807.3	2755.9	2763.0	3645.0	5124.0	5157.6	5051.3	4870.7	3630.9
67.5°	2104.1	2137.8	2313.1	2513.3	2449.5	2346.8	2658.5	2642.6	2082.9	1611.8	1331.9
70°	1317.7	1339.0	1526.7	1973.1	2132.5	1927.0	1709.2	1702.1	1115.8	917.5	1006.0
72.5°	768.7	772.2	825.4	1099.9	1415.2	1317.7	1257.5	1211.5	717.3	731.5	802.3
75°	423.3	423.3	421.5	474.7	557.9	494.2	478.2	465.8	480.0	543.7	596.9
77.5°	88.6	90.3	95.6	125.8	162.9	198.4	249.7	251.5	313.5	363.1	405.6
80°	40.7	42.5	53.1	67.3	86.8	115.1	152.3	154.1	189.5	228.5	256.8
82.5°	21.3	23.0	28.3	35.4	46.1	60.2	85.0	85.0	113.4	134.6	152.3
85°	7.1	7.1	10.6	14.2	19.5	24.8	33.7	33.7	49.6	65.5	76.2
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.1	7.1	8.9	10.6	17.7
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°	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6	7943.6
2.5°	7908.2	7853.3	7855.1	7865.7	7832.0	7780.7	7747.0	7704.5	7678.0	7672.6	7692.1
5°	7794.9	7731.1	7686.8	7640.8	7545.1	7431.8	7343.2	7270.6	7222.8	7205.1	7183.8
7.5°	7639.0	7555.7	7444.2	7314.9	7141.3	6939.4	6797.7	6664.9	6572.8	6546.2	6533.8
10°	7483.1	7362.7	7164.3	6923.4	6634.7	6362.0	6105.2	5908.6	5752.7	5664.2	5692.5
12.5°	7322.0	7173.2	6863.2	6493.1	6091.0	5680.1	5343.6	5017.7	4766.2	4640.4	4603.2
15°	7180.3	6978.4	6546.2	6045.0	5510.1	4992.9	4505.8	4017.0	3698.2	3524.6	3476.8
17.5°	7059.8	6797.7	6211.4	5588.0	4948.6	4211.8	3613.2	3159.7	2941.9	2846.2	2839.2
20°	6941.2	6620.6	5880.2	5095.6	4300.4	3475.0	2940.1	2727.6	2649.6	2616.0	2614.2
22.5°	6834.9	6434.6	5531.3	4603.2	3655.7	2920.6	2626.6	2534.5	2513.3	2513.3	2509.7
25°	6744.6	6248.6	5173.5	4080.7	3073.0	2600.1	2463.7	2424.7	2433.6	2449.5	2451.3
27.5°	6707.4	6103.4	4828.2	3544.1	2670.9	2414.1	2352.1	2346.8	2371.6	2396.4	2399.9
30°	6746.3	6004.2	4473.9	3030.4	2430.0	2300.7	2272.4	2283.0	2313.1	2337.9	2337.9
32.5°	6866.8	5954.6	4112.6	2655.0	2290.1	2221.0	2212.2	2222.8	2245.8	2260.0	2261.8
35°	7070.5	5974.1	3738.9	2401.7	2199.8	2162.6	2160.8	2167.9	2176.7	2185.6	2187.4
37.5°	7327.3	6060.9	3338.6	2254.7	2141.3	2120.1	2116.5	2114.8	2116.5	2116.5	2118.3
40°	7578.8	6192.0	2980.9	2167.9	2100.6	2082.9	2074.0	2061.6	2059.9	2056.3	2054.5
42.5°	7764.7	6292.9	2695.7	2105.9	2063.4	2042.1	2031.5	2012.0	2010.3	2008.5	2006.7
45°	7904.7	6377.9	2458.4	2045.7	2024.4	2004.9	1981.9	1964.2	1967.8	1971.3	1971.3
47.5°	8062.3	6452.3	2284.8	1989.0	1976.6	1957.1	1928.8	1916.4	1928.8	1941.2	1941.2
50°	8253.6	6556.8	2143.1	1932.3	1927.0	1904.0	1879.2	1873.9	1888.1	1905.8	1905.8
52.5°	8393.5	6647.1	2042.1	1875.7	1875.7	1845.5	1824.3	1822.5	1838.5	1856.2	1857.9
55°	8655.6	6857.9	2006.7	1810.1	1803.0	1780.0	1764.1	1751.7	1771.2	1787.1	1787.1
57.5°	8951.4	7137.8	2015.6	1716.2	1707.4	1700.3	1687.9	1673.7	1679.1	1696.8	1698.5
60°	8324.4	6595.8	1918.2	1622.4	1617.1	1613.5	1597.6	1572.8	1579.9	1594.0	1595.8
62.5°	5814.7	4383.6	1551.5	1505.5	1523.2	1521.4	1500.2	1471.8	1473.6	1493.1	1493.1
65°	3018.0	2371.6	1362.0	1399.2	1425.8	1415.2	1379.7	1354.9	1351.4	1376.2	1370.9
67.5°	1301.8	1294.7	1239.8	1287.6	1316.0	1292.9	1255.7	1215.0	1218.6	1227.4	1220.3
70°	1048.5	1080.4	1103.4	1154.8	1177.8	1135.3	1094.6	1071.5	1052.1	1050.3	1037.9
72.5°	837.8	882.0	933.4	986.5	993.6	951.1	899.7	878.5	848.4	846.6	834.2
75°	630.5	667.7	708.5	751.0	751.0	710.2	676.6	666.0	630.5	619.9	609.3
77.5°	430.4	453.4	485.3	495.9	506.6	490.6	457.0	439.2	398.5	387.9	373.7
80°	271.0	286.9	306.4	313.5	324.1	304.6	278.1	258.6	230.3	221.4	214.3
82.5°	162.9	173.6	186.0	189.5	198.4	184.2	159.4	145.2	129.3	122.2	116.9
85°	83.2	88.6	95.6	97.4	95.6	81.5	72.6	65.5	54.9	53.1	49.6
87.5°	21.3	24.8	26.6	24.8	23.0	17.7	12.4	8.9	3.5	3.5	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)