

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: P637759

Luminaire Tested: GWS-SA4D-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637759
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20508.3 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

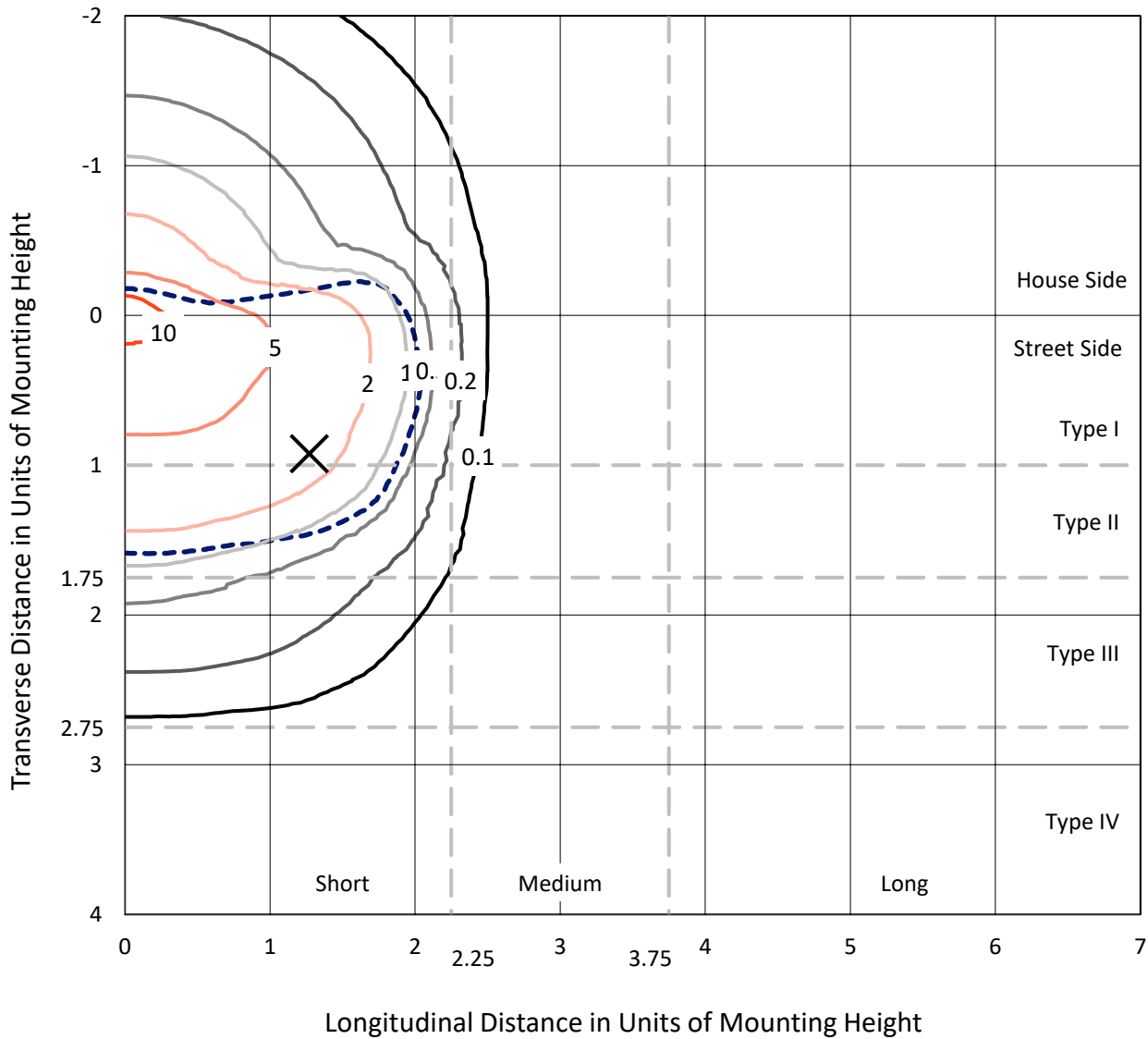
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

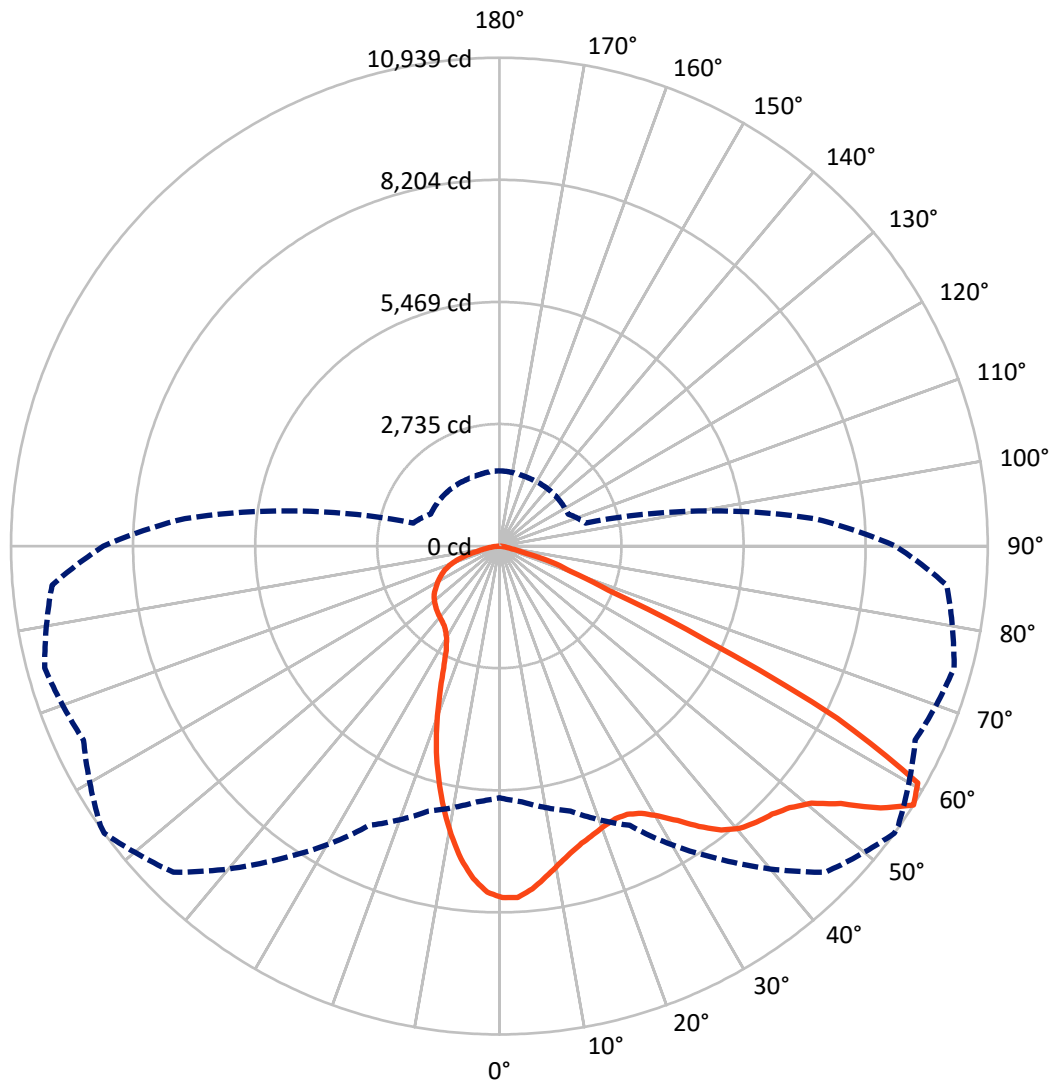


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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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	5962.0	0.0	5962.0
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	14546.3	0.0	14546.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	20508.3	0.0	20508.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.1	3.4
10°-20°	1651.4	8.1
20°-30°	2285.3	11.1
30°-40°	3175.4	15.5
40°-50°	4193.7	20.4
50°-60°	4983.6	24.3
60°-70°	2761.0	13.5
70°-80°	687.6	3.4
80°-90°	78.2	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°	20508.3	100.0
0°-180°	20508.3	100.0

Coefficient of Utilization



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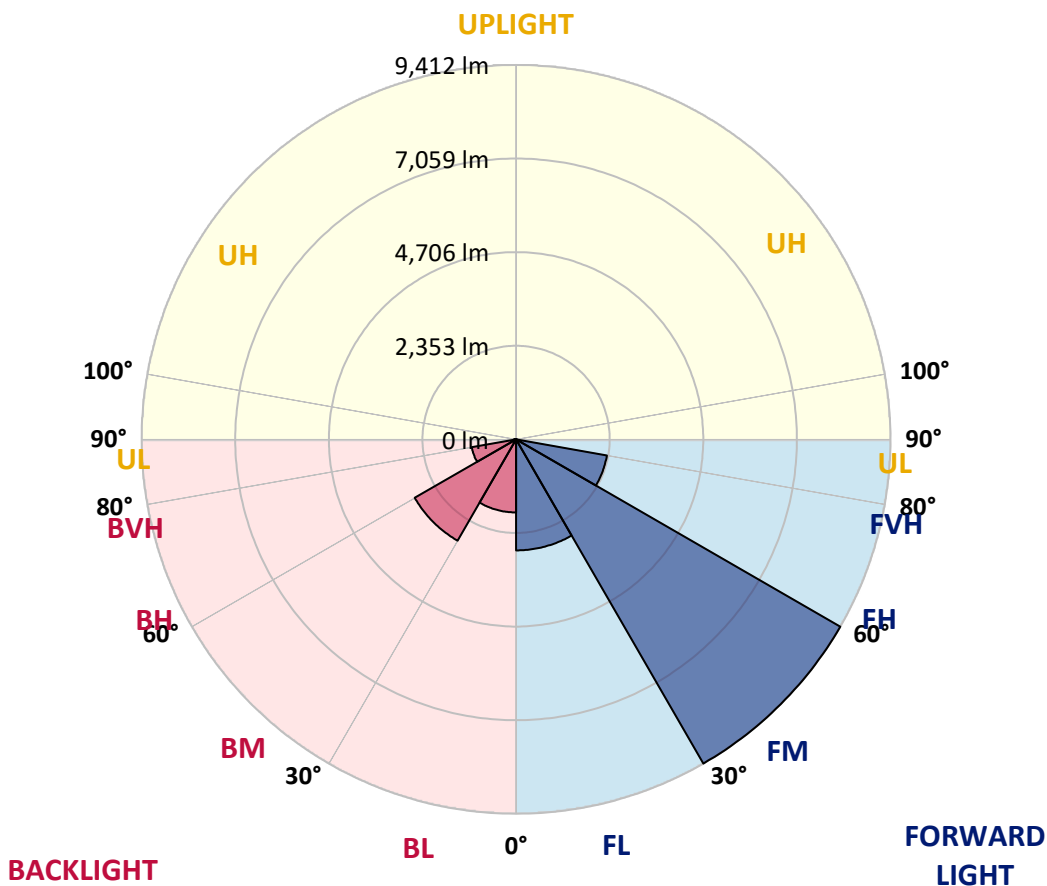
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2791.5	13.6			
FM (30°-60°)	9411.6	45.9			
FH (60°-80°)	2318.7	11.3			G2/5000
FVH (80°-90°)	24.5	0.1			G1/100
BL (0°-30°)	1837.2	9.0	B3/2500		
BM (30°-60°)	2941.2	14.3	B3/5000		
BH (60°-80°)	1129.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	53.7	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°	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6
2.5°	7726.1	7741.9	7752.5	7789.3	7820.9	7849.0	7878.9	7878.9	7877.1	7871.8	7861.3
5°	7420.7	7438.2	7462.8	7513.7	7582.2	7631.3	7712.1	7719.1	7754.2	7768.3	7761.2
7.5°	7066.1	7071.3	7102.9	7169.6	7278.5	7366.3	7482.1	7496.2	7580.4	7629.6	7620.8
10°	6678.1	6660.5	6716.7	6815.0	6957.2	7104.7	7253.9	7266.2	7401.4	7494.4	7487.4
12.5°	6323.5	6325.2	6381.4	6500.8	6678.1	6860.7	7060.8	7088.9	7255.7	7375.0	7362.7
15°	6026.8	6033.8	6102.3	6237.4	6439.3	6657.0	6906.3	6932.6	7143.3	7301.3	7266.2
17.5°	5789.8	5796.8	5856.5	6011.0	6226.9	6490.2	6793.9	6820.3	7081.9	7269.7	7197.7
20°	5626.5	5623.0	5680.9	5828.4	6051.4	6337.5	6695.6	6734.3	7062.5	7282.0	7152.1
22.5°	5559.8	5558.0	5600.2	5721.3	5930.2	6219.9	6635.9	6688.6	7083.6	7336.4	7124.0
25°	5593.2	5586.1	5623.0	5712.5	5879.3	6174.2	6653.5	6709.7	7173.1	7448.8	7129.3
27.5°	5696.7	5688.0	5719.6	5800.3	5926.7	6221.6	6776.4	6841.3	7362.7	7654.2	7199.5
30°	5854.7	5849.5	5881.1	5958.3	6068.9	6379.6	7011.6	7085.4	7655.9	7973.7	7352.2
32.5°	6039.1	6030.3	6086.5	6176.0	6304.1	6667.5	7327.6	7424.2	8003.5	8384.5	7608.5
35°	6246.2	6239.2	6316.4	6446.3	6630.7	7067.8	7710.3	7815.7	8358.1	8849.7	7949.1
37.5°	6448.1	6448.1	6597.3	6790.4	7022.2	7503.2	8070.2	8136.9	8603.9	9262.2	8314.2
40°	6627.2	6637.7	6862.4	7152.1	7447.0	7896.4	8307.2	8363.4	8712.8	9546.6	8632.0
42.5°	6825.5	6834.3	7095.9	7475.1	7826.2	8214.2	8451.2	8479.3	8733.8	9688.8	8856.7
45°	6983.5	6995.8	7320.6	7726.1	8156.2	8452.9	8565.3	8589.9	8763.7	9766.1	9020.0
47.5°	7066.1	7083.6	7455.8	7928.0	8379.2	8667.1	8753.1	8763.7	8886.5	9901.3	9216.6
50°	7052.0	7087.1	7506.7	8028.1	8544.2	8883.0	9055.1	9072.6	9137.6	10099.6	9446.6
52.5°	7176.7	7192.5	7615.5	8147.5	8779.5	9281.5	9580.0	9604.6	9574.7	10248.8	9583.5
55°	6969.5	7045.0	7480.4	8129.9	9137.6	9897.7	10357.7	10345.4	9971.5	10415.6	9811.7
57.5°	5637.0	5747.6	6146.1	6901.0	8547.7	10329.6	10938.8	10908.9	10278.7	10543.8	10059.3
60°	3902.6	3920.1	4280.0	4815.4	6597.3	9125.3	10768.5	10833.4	10334.9	10382.3	9601.1
62.5°	3121.4	3116.1	3149.4	3163.5	4195.7	6414.7	8500.3	8737.3	8586.4	8089.5	6804.5
65°	2664.9	2684.2	2782.5	2731.6	2738.6	3612.9	5078.8	5112.1	5006.8	4827.7	3598.9
67.5°	2085.6	2118.9	2292.7	2491.1	2427.9	2326.1	2635.1	2619.3	2064.5	1597.5	1320.2
70°	1306.1	1327.2	1513.3	1955.7	2113.7	1910.0	1694.1	1687.1	1106.0	909.4	997.1
72.5°	761.9	765.4	818.1	1090.2	1402.7	1306.1	1246.4	1200.8	711.0	725.0	795.3
75°	419.6	419.6	417.8	470.5	553.0	489.8	474.0	461.7	475.8	539.0	591.6
77.5°	87.8	89.5	94.8	124.6	161.5	196.6	247.5	249.3	310.7	359.9	402.0
80°	40.4	42.1	52.7	66.7	86.0	114.1	151.0	152.7	187.8	226.5	254.6
82.5°	21.1	22.8	28.1	35.1	45.6	59.7	84.3	84.3	112.4	133.4	151.0
85°	7.0	7.0	10.5	14.0	19.3	24.6	33.4	33.4	49.2	65.0	75.5
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.0	7.0	8.8	10.5	17.6
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°	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6	7873.6
2.5°	7838.5	7784.1	7785.8	7796.4	7763.0	7712.1	7678.7	7636.6	7610.3	7605.0	7624.3
5°	7726.1	7662.9	7619.0	7573.4	7478.6	7366.3	7278.5	7206.5	7159.1	7141.5	7120.5
7.5°	7571.6	7489.1	7378.5	7250.4	7078.3	6878.2	6737.8	6606.1	6514.8	6488.5	6476.2
10°	7417.2	7297.8	7101.2	6862.4	6576.3	6305.9	6051.4	5856.5	5702.0	5614.2	5642.3
12.5°	7257.4	7109.9	6802.7	6435.8	6037.3	5630.0	5296.5	4973.4	4724.2	4599.5	4562.7
15°	7117.0	6916.8	6488.5	5991.7	5461.5	4948.9	4466.1	3981.6	3665.6	3493.5	3446.1
17.5°	6997.6	6737.8	6156.7	5538.7	4905.0	4174.7	3581.3	3131.9	2916.0	2821.2	2814.1
20°	6880.0	6562.2	5828.4	5050.7	4262.5	3444.4	2914.2	2703.5	2626.3	2592.9	2591.2
22.5°	6774.6	6377.9	5482.6	4562.7	3623.4	2894.9	2603.5	2512.2	2491.1	2491.1	2487.6
25°	6685.1	6193.5	5127.9	4044.8	3045.9	2577.1	2442.0	2403.3	2412.1	2427.9	2429.7
27.5°	6648.2	6049.6	4785.6	3512.8	2647.4	2392.8	2331.4	2326.1	2350.7	2375.2	2378.8
30°	6686.9	5951.3	4434.5	3003.7	2408.6	2280.4	2252.4	2262.9	2292.7	2317.3	2317.3
32.5°	6806.2	5902.1	4076.4	2631.6	2269.9	2201.4	2192.7	2203.2	2226.0	2240.1	2241.8
35°	7008.1	5921.4	3705.9	2380.5	2180.4	2143.5	2141.8	2148.8	2157.6	2166.3	2168.1
37.5°	7262.7	6007.5	3309.2	2234.8	2122.4	2101.4	2097.9	2096.1	2097.9	2097.9	2099.6
40°	7512.0	6137.4	2954.6	2148.8	2082.1	2064.5	2055.7	2043.4	2041.7	2038.2	2036.4
42.5°	7696.3	6237.4	2671.9	2087.3	2045.2	2024.1	2013.6	1994.3	1992.5	1990.8	1989.0
45°	7835.0	6321.7	2436.7	2027.7	2006.6	1987.3	1964.5	1946.9	1950.4	1953.9	1953.9
47.5°	7991.2	6395.4	2264.6	1971.5	1959.2	1939.9	1911.8	1899.5	1911.8	1924.1	1924.1
50°	8180.8	6499.0	2124.2	1915.3	1910.0	1887.2	1862.6	1857.4	1871.4	1889.0	1889.0
52.5°	8319.5	6588.5	2024.1	1859.1	1859.1	1829.3	1808.2	1806.5	1822.3	1839.8	1841.6
55°	8579.3	6797.5	1989.0	1794.2	1787.1	1764.3	1748.5	1736.2	1755.5	1771.3	1771.3
57.5°	8872.5	7074.8	1997.8	1701.1	1692.3	1685.3	1673.0	1659.0	1664.3	1681.8	1683.6
60°	8251.0	6537.6	1901.3	1608.1	1602.8	1599.3	1583.5	1558.9	1565.9	1580.0	1581.7
62.5°	5763.4	4345.0	1537.9	1492.2	1509.8	1508.0	1486.9	1458.9	1460.6	1479.9	1479.9
65°	2991.4	2350.7	1350.0	1386.9	1413.2	1402.7	1367.6	1343.0	1339.5	1364.1	1358.8
67.5°	1290.3	1283.3	1228.9	1276.3	1304.4	1281.5	1244.7	1204.3	1207.8	1216.6	1209.6
70°	1039.3	1070.9	1093.7	1144.6	1167.4	1125.3	1084.9	1062.1	1042.8	1041.0	1028.7
72.5°	830.4	874.3	925.2	977.8	984.9	942.7	891.8	870.7	840.9	839.1	826.9
75°	625.0	661.8	702.2	744.3	744.3	704.0	670.6	660.1	625.0	614.4	603.9
77.5°	426.6	449.4	481.0	491.6	502.1	486.3	452.9	435.4	395.0	384.5	370.4
80°	268.6	284.4	303.7	310.7	321.3	302.0	275.6	256.3	228.2	219.4	212.4
82.5°	161.5	172.0	184.3	187.8	196.6	182.6	158.0	144.0	128.2	121.1	115.9
85°	82.5	87.8	94.8	96.6	94.8	80.8	72.0	65.0	54.4	52.7	49.2
87.5°	21.1	24.6	26.3	24.6	22.8	17.6	12.3	8.8	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)