

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: P638797

Luminaire Tested: GWS-SA4F-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 30681.2 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 225.3
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

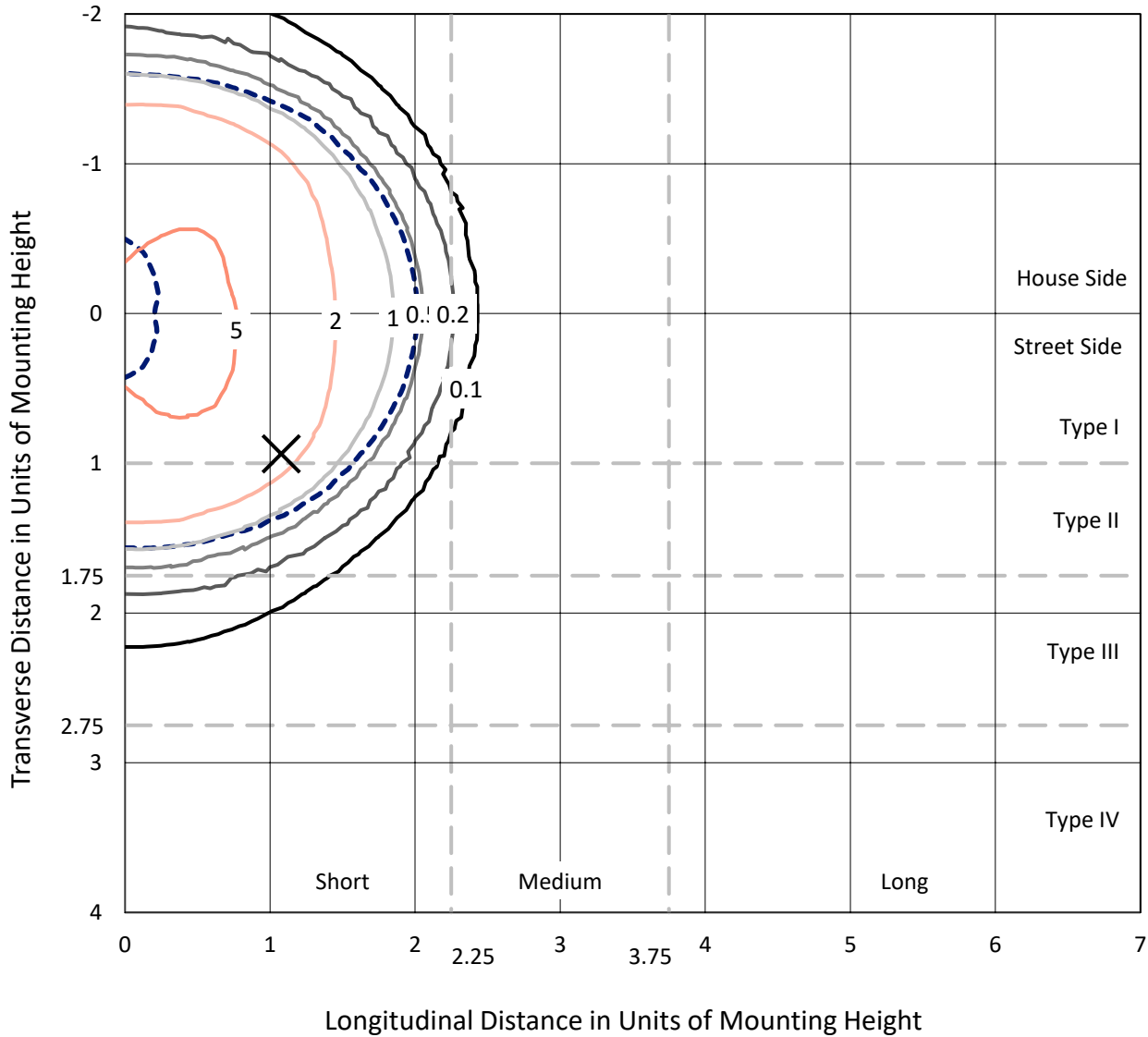


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Iso-Footcandle Lines of Horizontal Illumination

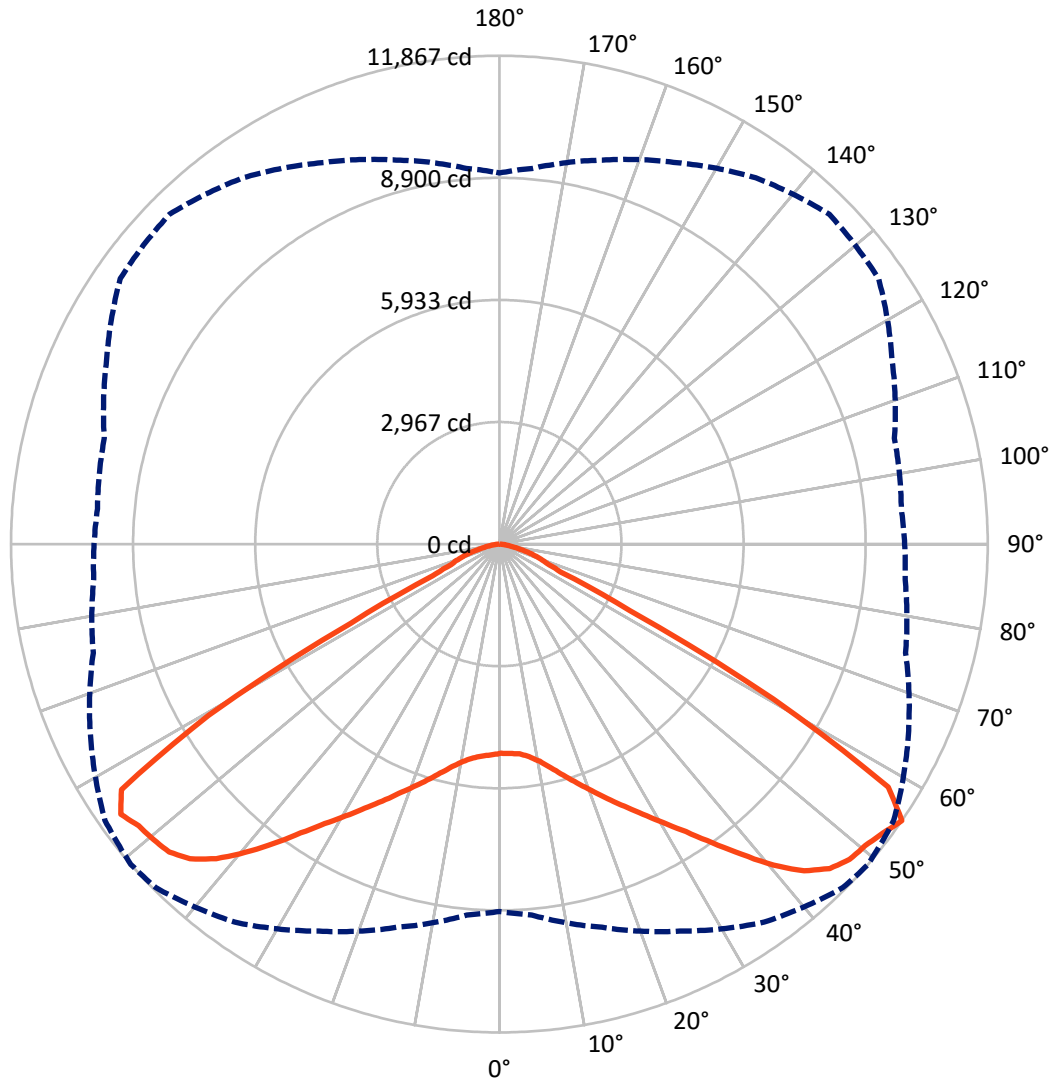
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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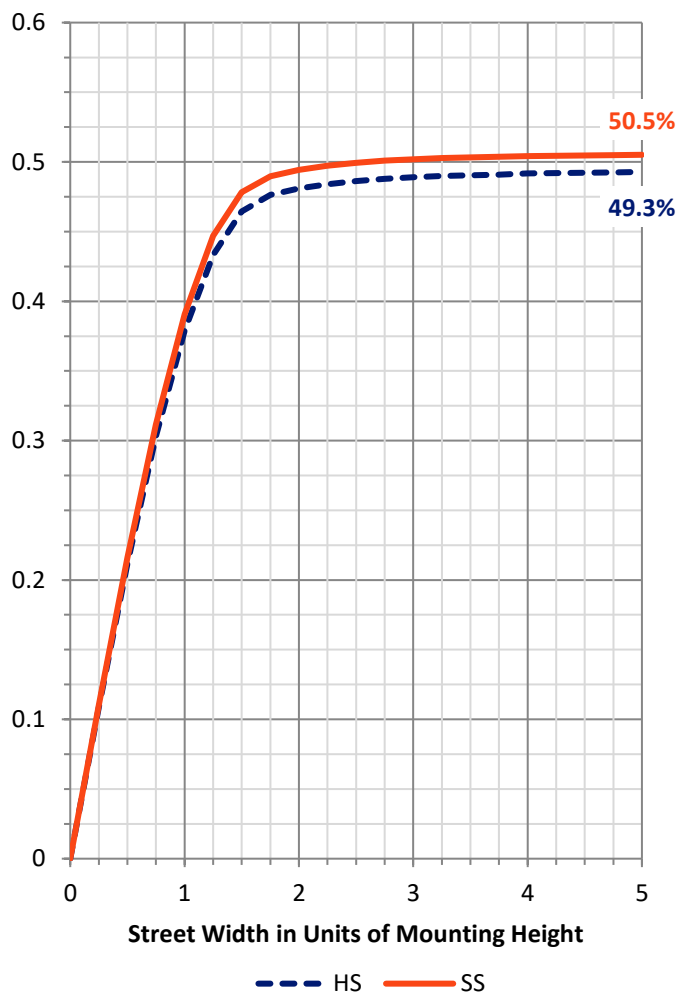
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15190.1	0.0	15190.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	15491.1	0.0	15491.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	30681.2	0.0	30681.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.8	1.6
10°-20°	1635.4	5.3
20°-30°	3114.9	10.2
30°-40°	5280.4	17.2
40°-50°	7946.7	25.9
50°-60°	8698.4	28.4
60°-70°	2750.5	9.0
70°-80°	660.1	2.2
80°-90°	99.1	0.3
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°	30681.2	100.0
0°-180°	30681.2	100.0

Coefficient of Utilization



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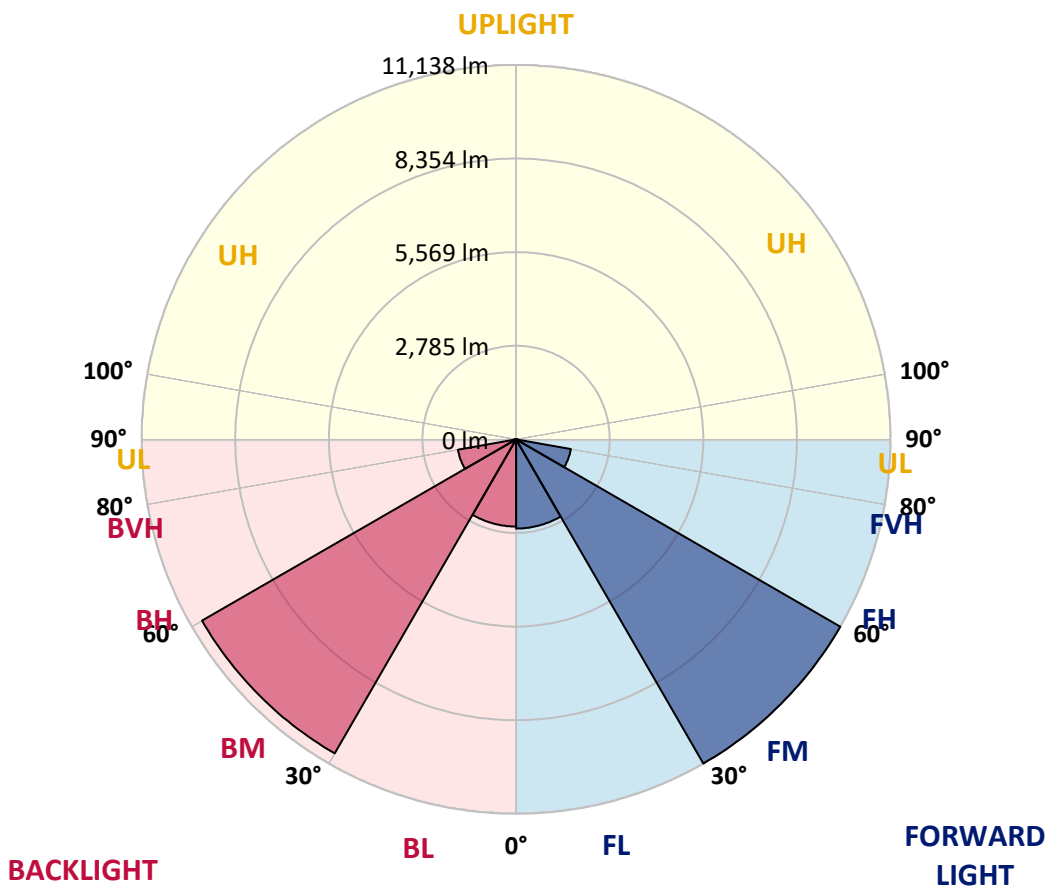
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2652.7	8.6			
FM (30°-60°)	11138.1	36.3			
FH (60°-80°)	1654.4	5.4			G1/1800
FVH (80°-90°)	45.9	0.1			G1/100
BL (0°-30°)	2593.4	8.5	B4/5000		
BM (30°-60°)	10787.3	35.2	B5		
BH (60°-80°)	1756.1	5.7	B3/2500		G1/1800
BVH (80°-90°)	53.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5
2.5°	5007.7	5012.7	5022.6	5040.1	5057.6	5082.5	5092.5	5105.0	5102.5	5117.5	5117.5
5°	4982.7	4990.2	5005.2	5030.1	5060.1	5107.5	5120.0	5149.9	5179.8	5217.3	5229.7
7.5°	5012.7	5022.6	5040.1	5080.0	5124.9	5187.3	5212.3	5262.2	5319.6	5386.9	5414.4
10°	5070.1	5082.5	5112.5	5177.3	5249.7	5344.5	5367.0	5429.3	5521.7	5614.0	5668.9
12.5°	5134.9	5154.9	5209.8	5312.1	5419.4	5544.1	5579.1	5656.4	5756.2	5876.0	5950.8
15°	5209.8	5227.2	5312.1	5456.8	5624.0	5788.6	5828.6	5903.4	6015.7	6133.0	6237.8
17.5°	5367.0	5396.9	5496.7	5663.9	5858.5	6053.1	6098.0	6182.9	6272.7	6365.0	6464.8
20°	5581.5	5606.5	5733.7	5940.8	6170.4	6347.5	6392.5	6467.3	6509.7	6557.1	6642.0
22.5°	5796.1	5831.1	5975.8	6220.3	6489.8	6681.9	6716.8	6786.7	6756.7	6741.8	6796.7
25°	6063.1	6110.5	6252.7	6519.7	6794.2	7031.2	7058.6	7118.5	7068.6	6991.3	6988.8
27.5°	6395.0	6437.4	6584.6	6859.0	7131.0	7378.0	7430.4	7510.3	7400.5	7305.7	7238.3
30°	6789.2	6816.6	6978.8	7270.7	7550.2	7784.7	7852.1	7931.9	7849.6	7692.4	7625.0
32.5°	7248.3	7285.7	7472.8	7779.7	8029.2	8263.8	8331.2	8431.0	8341.1	8164.0	8079.1
35°	7799.7	7837.1	8034.2	8368.6	8623.1	8865.1	8912.5	8994.8	8882.6	8678.0	8610.6
37.5°	8398.5	8445.9	8695.4	9012.3	9279.3	9561.2	9563.7	9588.7	9429.0	9174.5	9099.6
40°	9072.2	9134.6	9384.1	9713.4	10035.3	10264.9	10262.4	10192.5	9923.0	9528.8	9414.0
42.5°	9738.4	9788.3	10040.3	10379.6	10701.5	10918.6	10853.7	10684.0	10294.8	9758.4	9606.2
45°	10219.9	10257.4	10521.9	10903.6	11230.5	11365.2	11247.9	11043.3	10516.9	9903.1	9678.5
47.5°	10447.0	10496.9	10763.9	11143.1	11512.4	11589.8	11450.0	11257.9	10646.6	10037.8	9735.9
50°	10324.7	10389.6	10691.5	11043.3	11460.0	11619.7	11519.9	11327.8	10783.8	10170.0	9838.2
52.5°	10007.9	10070.2	10452.0	10878.7	11350.2	11667.1	11664.6	11507.4	10941.0	10207.5	9843.2
55°	8925.0	9047.2	9641.1	10377.1	11215.5	11806.8	11866.7	11699.5	10966.0	10217.5	9895.6
57.5°	5808.6	6023.2	6587.1	7545.2	9226.9	10738.9	11143.1	11183.1	10786.3	10175.0	9905.6
60°	2425.2	2597.4	3044.0	3680.3	5070.1	6869.0	7652.5	8438.4	9386.6	9730.9	9813.2
62.5°	1507.0	1522.0	1566.9	1711.6	2175.7	3054.0	3558.0	4294.1	5703.8	6904.0	7457.9
65°	1359.8	1367.3	1377.3	1367.3	1389.8	1497.1	1631.8	1888.8	2462.7	3059.0	3767.6
67.5°	1197.6	1207.6	1215.1	1207.6	1215.1	1220.1	1235.1	1257.5	1362.3	1447.2	1512.0
70°	968.1	983.1	995.5	990.6	1020.5	1020.5	1035.5	1052.9	1105.3	1167.7	1212.6
72.5°	738.6	726.1	741.0	746.0	773.5	788.5	810.9	830.9	890.8	928.2	985.6
75°	479.1	466.6	489.0	501.5	538.9	558.9	578.9	598.8	641.2	666.2	721.1
77.5°	259.5	257.0	279.5	296.9	336.8	361.8	376.8	391.7	426.7	434.1	469.1
80°	149.7	149.7	164.7	177.2	202.1	229.5	244.5	257.0	281.9	289.4	304.4
82.5°	82.3	82.3	89.8	97.3	117.3	132.2	144.7	154.7	177.2	184.6	192.1
85°	39.9	37.4	42.4	47.4	54.9	62.4	69.9	74.9	92.3	97.3	107.3
87.5°	5.0	5.0	5.0	7.5	10.0	15.0	17.5	17.5	27.4	32.4	37.4
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°	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5	5082.5
2.5°	5132.4	5100.0	5120.0	5127.4	5127.4	5120.0	5087.5	5077.5	5062.6	5040.1	5040.1
5°	5247.2	5222.3	5227.2	5214.8	5184.8	5147.4	5087.5	5057.6	5032.6	5005.2	5002.7
7.5°	5444.3	5411.9	5406.9	5359.5	5279.6	5199.8	5110.0	5055.1	5017.7	4982.7	4980.2
10°	5701.3	5671.4	5633.9	5539.1	5421.9	5304.6	5182.3	5107.5	5052.6	5002.7	5000.2
12.5°	5988.2	5953.3	5883.5	5743.7	5596.5	5481.7	5342.0	5227.2	5144.9	5077.5	5065.1
15°	6300.1	6250.2	6130.5	5965.8	5821.1	5698.8	5549.1	5384.4	5259.7	5152.4	5139.9
17.5°	6539.7	6474.8	6345.0	6190.4	6070.6	5948.3	5753.7	5546.6	5367.0	5232.2	5212.3
20°	6704.3	6651.9	6504.7	6390.0	6320.1	6212.8	5985.8	5751.2	5549.1	5379.4	5369.5
22.5°	6856.5	6794.2	6649.5	6582.1	6582.1	6509.7	6292.7	6015.7	5778.7	5581.5	5556.6
25°	7028.7	6961.3	6851.6	6844.1	6879.0	6846.6	6584.6	6287.7	6010.7	5788.6	5748.7
27.5°	7268.2	7193.4	7128.5	7173.4	7223.3	7188.4	6896.5	6552.1	6260.2	6035.7	6000.7
30°	7650.0	7557.7	7497.8	7552.7	7650.0	7547.7	7230.8	6866.5	6572.1	6325.1	6307.6
32.5°	8094.1	7989.3	7926.9	8014.3	8101.6	7941.9	7627.5	7278.2	6968.8	6709.3	6679.4
35°	8628.1	8495.8	8403.5	8520.8	8610.6	8453.4	8141.5	7809.7	7465.4	7195.9	7156.0
37.5°	9102.1	8942.5	8880.1	9044.8	9164.5	9062.2	8722.9	8411.0	8034.2	7739.8	7722.3
40°	9446.5	9289.3	9244.4	9516.3	9725.9	9701.0	9396.6	9039.8	8685.5	8346.1	8313.7
42.5°	9596.2	9486.4	9496.4	9863.1	10187.5	10347.2	10075.2	9693.5	9351.6	8999.8	8977.4
45°	9628.6	9561.2	9641.1	10100.2	10526.8	10853.7	10621.7	10302.3	9915.5	9576.2	9566.2
47.5°	9663.5	9626.1	9748.4	10234.9	10741.4	11120.7	10990.9	10661.6	10269.8	9938.0	9913.0
50°	9745.9	9730.9	9868.1	10329.7	10843.7	11193.0	11045.8	10719.0	10317.3	9990.4	9930.5
52.5°	9770.8	9745.9	9943.0	10476.9	11013.4	11190.5	10873.7	10447.0	10042.8	9678.5	9616.1
55°	9848.2	9803.3	9938.0	10531.8	11247.9	11335.3	10863.7	10224.9	9661.0	9164.5	9017.3
57.5°	9868.1	9818.2	9905.6	10442.0	10993.4	10916.1	9548.8	8251.3	7188.4	6637.0	6699.4
60°	9760.8	9775.8	9626.1	9566.2	8817.7	7784.7	5846.0	4673.3	3670.3	3246.1	3338.4
62.5°	7430.4	7492.8	6981.3	6070.6	4668.3	3700.2	2447.7	1901.3	1609.3	1534.5	1547.0
65°	3750.1	3835.0	3303.5	2732.1	2031.0	1641.8	1419.7	1374.8	1359.8	1342.4	1342.4
67.5°	1484.6	1509.5	1489.6	1394.8	1297.5	1262.5	1252.5	1247.6	1230.1	1220.1	1222.6
70°	1192.7	1212.6	1182.7	1122.8	1082.9	1080.4	1075.4	1065.4	1052.9	1052.9	1060.4
72.5°	973.1	993.1	950.6	913.2	883.3	860.8	848.3	840.9	823.4	823.4	830.9
75°	716.1	728.6	693.6	688.6	656.2	633.8	613.8	603.8	581.4	571.4	578.9
77.5°	476.6	474.1	456.6	456.6	444.1	416.7	394.2	371.8	341.8	321.9	326.9
80°	309.4	309.4	301.9	301.9	289.4	267.0	239.5	217.1	199.6	184.6	184.6
82.5°	197.1	194.6	192.1	189.6	184.6	162.2	142.2	127.3	114.8	104.8	107.3
85°	109.8	109.8	104.8	104.8	94.8	82.3	72.4	62.4	54.9	52.4	52.4
87.5°	37.4	37.4	34.9	34.9	29.9	22.5	17.5	15.0	12.5	10.0	12.5
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)