

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: P643692

Luminaire Tested: GWS-SA6F-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643692
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-SA6F-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43874.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

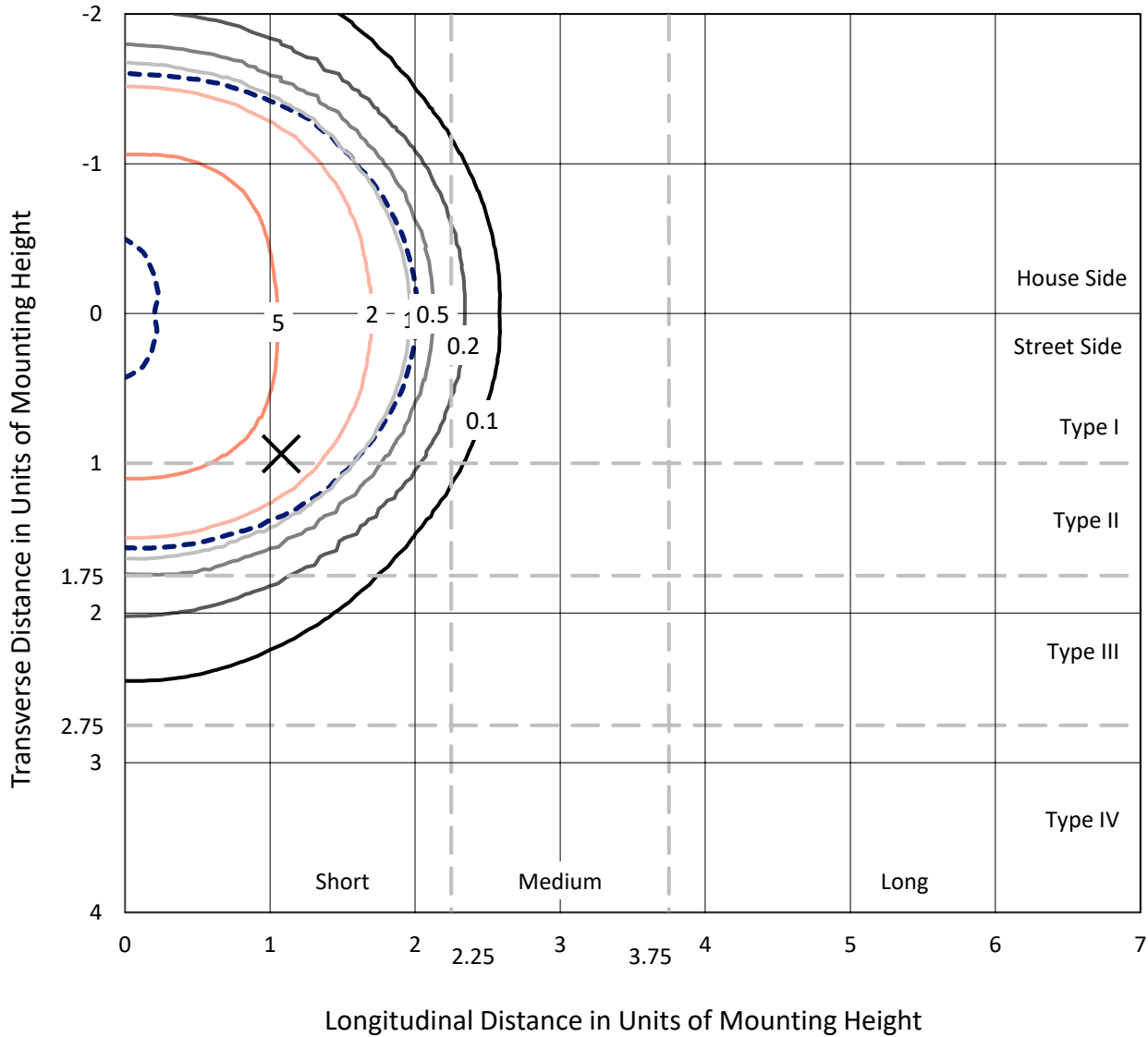
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

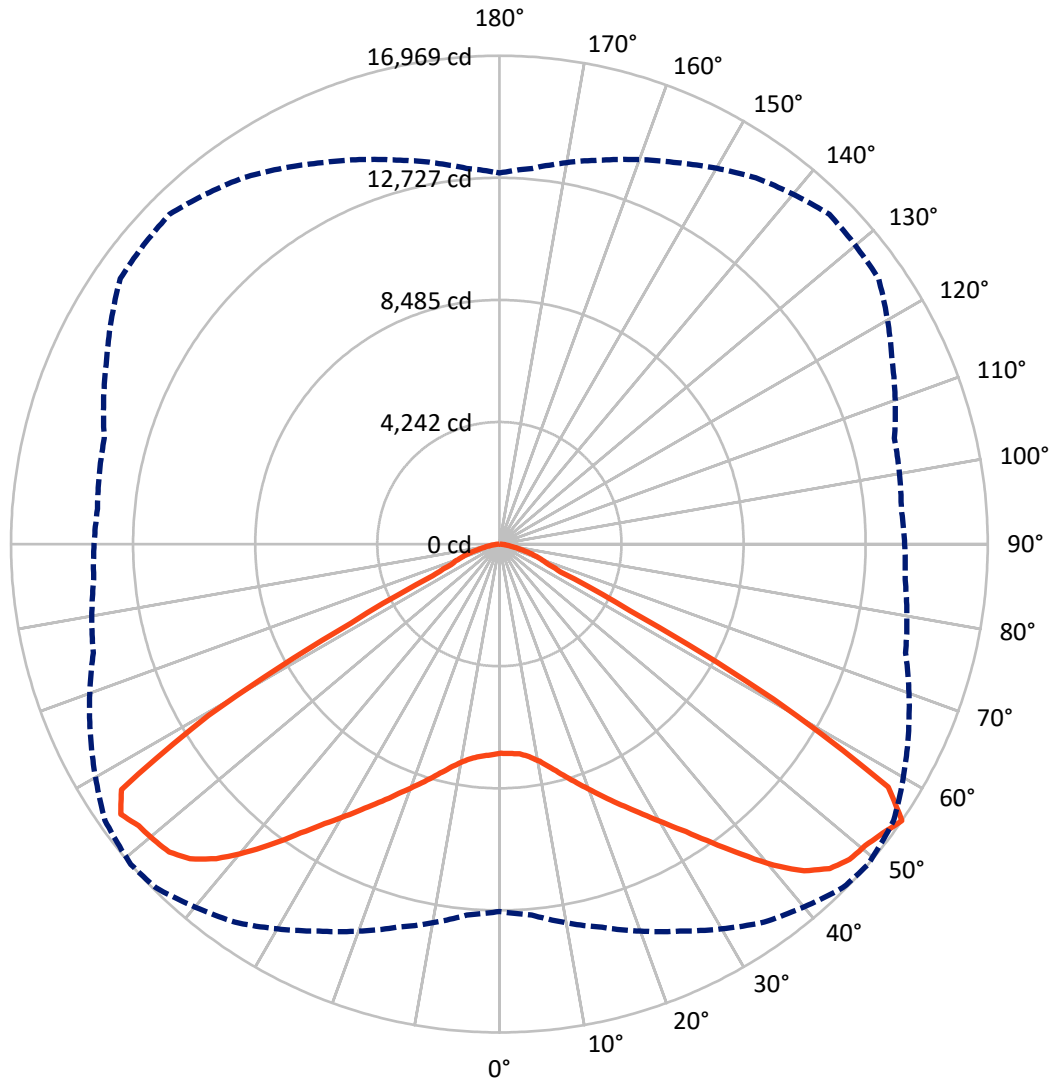
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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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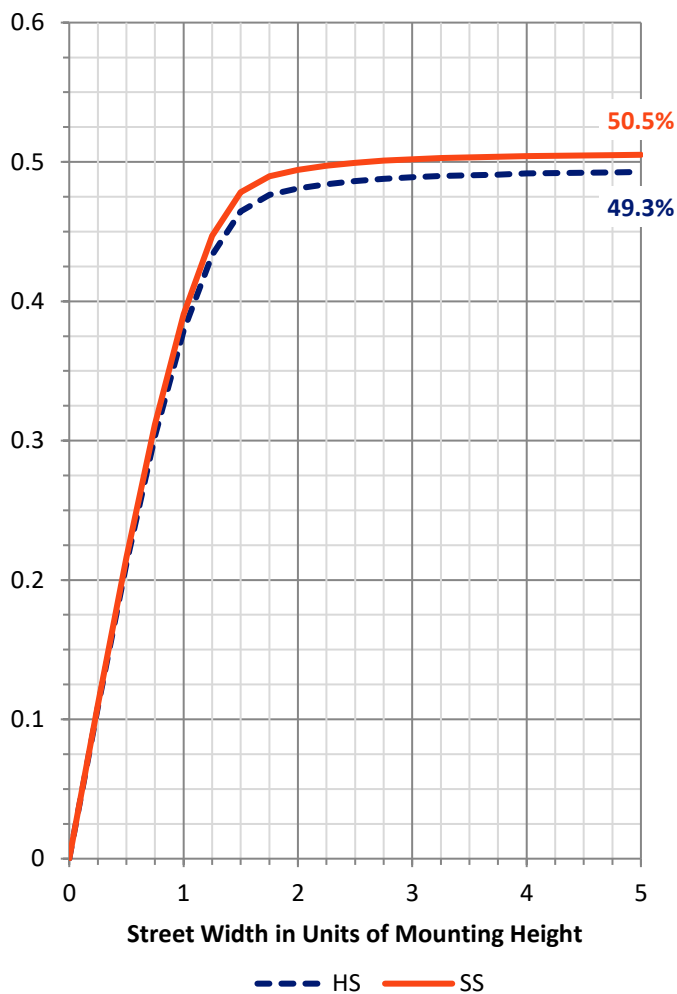
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21721.8	0.0	21721.8
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	22152.3	0.0	22152.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	43874.1	0.0	43874.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.0	1.6
10°-20°	2338.6	5.3
20°-30°	4454.3	10.2
30°-40°	7551.0	17.2
40°-50°	11363.7	25.9
50°-60°	12438.7	28.4
60°-70°	3933.2	9.0
70°-80°	944.0	2.2
80°-90°	141.7	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°	43874.1	100.0
0°-180°	43874.1	100.0

Coefficient of Utilization



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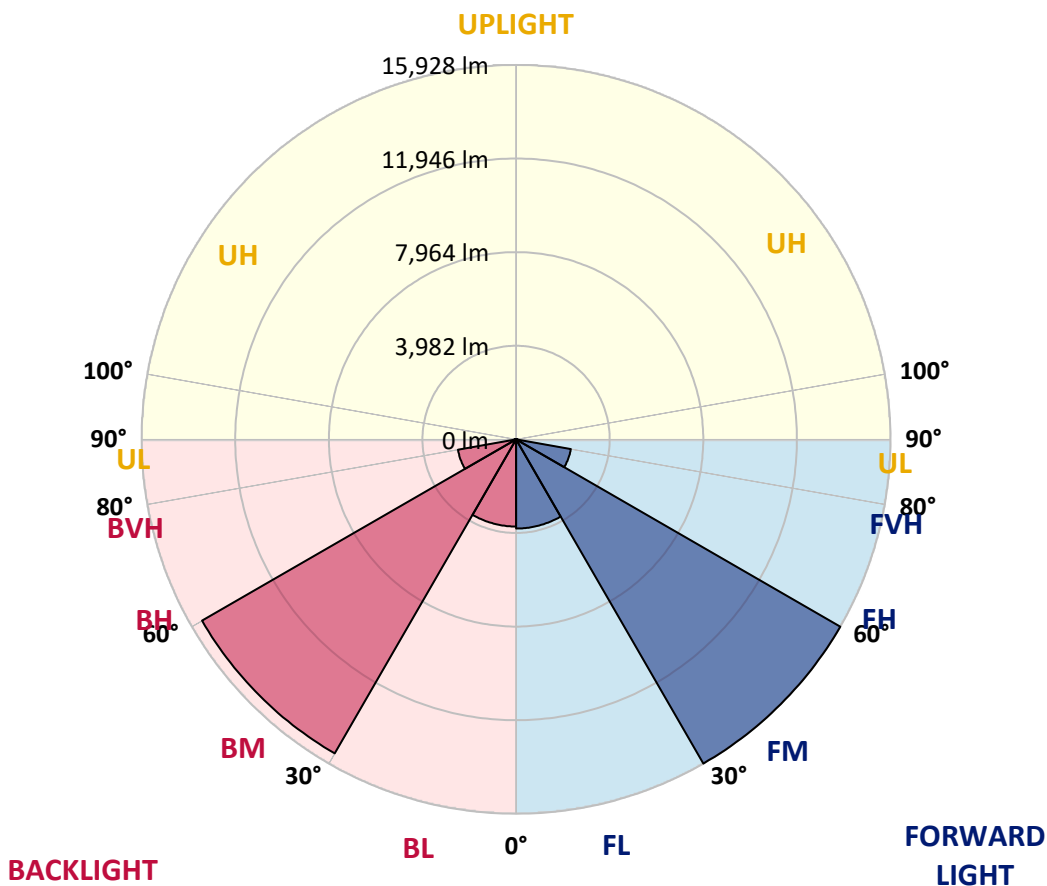
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3793.3	8.6			
FM (30°-60°)	15927.5	36.3			
FH (60°-80°)	2365.9	5.4			G2/5000
FVH (80°-90°)	65.6	0.1			G1/100
BL (0°-30°)	3708.6	8.5	B4/5000		
BM (30°-60°)	15425.9	35.2	B5		
BH (60°-80°)	2511.3	5.7	B4/5000		G2/5000
BVH (80°-90°)	76.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0
2.5°	7161.0	7168.1	7182.4	7207.4	7232.3	7268.0	7282.3	7300.1	7296.6	7318.0	7318.0
5°	7125.3	7136.0	7157.4	7193.1	7235.9	7303.7	7321.5	7364.3	7407.2	7460.7	7478.5
7.5°	7168.1	7182.4	7207.4	7264.4	7328.7	7417.9	7453.5	7524.9	7607.0	7703.3	7742.6
10°	7250.2	7268.0	7310.8	7403.6	7507.1	7642.7	7674.8	7764.0	7896.0	8028.0	8106.5
12.5°	7342.9	7371.5	7450.0	7596.3	7749.7	7928.1	7978.0	8088.7	8231.4	8402.6	8509.7
15°	7450.0	7475.0	7596.3	7803.2	8042.3	8277.8	8334.8	8441.9	8602.4	8770.1	8920.0
17.5°	7674.8	7717.6	7860.3	8099.4	8377.7	8656.0	8720.2	8841.5	8969.9	9102.0	9244.7
20°	7981.6	8017.3	8199.3	8495.4	8823.7	9077.0	9141.2	9248.2	9308.9	9376.7	9498.0
22.5°	8288.5	8338.4	8545.4	8895.0	9280.4	9555.1	9605.0	9705.0	9662.1	9640.7	9719.2
25°	8670.2	8738.0	8941.4	9323.2	9715.7	10054.6	10093.9	10179.5	10108.1	9997.5	9994.0
27.5°	9144.8	9205.4	9415.9	9808.4	10197.3	10550.6	10625.5	10739.7	10582.7	10447.1	10350.8
30°	9708.5	9747.8	9979.7	10397.1	10796.8	11132.2	11228.5	11342.7	11224.9	11000.1	10903.8
32.5°	10365.0	10418.6	10686.2	11125.0	11481.8	11817.2	11913.5	12056.3	11927.8	11674.5	11553.2
35°	11153.6	11207.1	11489.0	11967.1	12331.0	12677.1	12744.9	12862.6	12702.1	12409.5	12313.2
37.5°	12009.9	12077.7	12434.5	12887.6	13269.4	13672.6	13676.1	13711.8	13483.5	13119.5	13012.5
40°	12973.2	13062.4	13419.2	13890.2	14350.5	14678.7	14675.2	14575.3	14189.9	13626.2	13462.1
42.5°	13925.9	13997.3	14357.6	14842.9	15303.1	15613.6	15520.8	15278.2	14721.6	13954.4	13736.8
45°	14614.5	14668.0	15046.2	15592.1	16059.6	16252.2	16084.5	15792.0	15039.1	14161.4	13840.3
47.5°	14939.2	15010.6	15392.3	15934.7	16462.7	16573.3	16373.5	16098.8	15224.6	14354.1	13922.3
50°	14764.4	14857.1	15288.9	15792.0	16387.8	16616.2	16473.4	16198.7	15420.9	14543.2	14068.6
52.5°	14311.2	14400.4	14946.3	15556.5	16230.8	16684.0	16680.4	16455.6	15645.7	14596.7	14075.7
55°	12762.7	12937.6	13786.7	14839.3	16038.1	16883.8	16969.4	16730.3	15681.3	14610.9	14150.7
57.5°	8306.3	8613.1	9419.5	10789.6	13194.5	15356.7	15934.7	15991.8	15424.5	14550.3	14164.9
60°	3468.1	3714.3	4353.0	5262.8	7250.2	9822.7	10943.0	12067.0	13422.8	13915.2	14032.9
62.5°	2155.1	2176.5	2240.7	2447.6	3111.3	4367.2	5088.0	6140.5	8156.4	9872.6	10664.7
65°	1944.6	1955.3	1969.5	1955.3	1987.4	2140.8	2333.5	2701.0	3521.6	4374.4	5387.7
67.5°	1712.6	1726.9	1737.6	1726.9	1737.6	1744.8	1766.2	1798.3	1948.1	2069.4	2162.2
70°	1384.4	1405.8	1423.6	1416.5	1459.3	1459.3	1480.7	1505.7	1580.6	1669.8	1734.0
72.5°	1056.1	1038.3	1059.7	1066.8	1106.1	1127.5	1159.6	1188.1	1273.8	1327.3	1409.4
75°	685.1	667.2	699.3	717.2	770.7	799.2	827.8	856.3	917.0	952.7	1031.2
77.5°	371.1	367.5	399.6	424.6	481.7	517.4	538.8	560.2	610.1	620.8	670.8
80°	214.1	214.1	235.5	253.3	289.0	328.3	349.7	367.5	403.2	413.9	435.3
82.5°	117.7	117.7	128.4	139.2	167.7	189.1	206.9	221.2	253.3	264.0	274.7
85°	57.1	53.5	60.7	67.8	78.5	89.2	99.9	107.0	132.0	139.2	153.4
87.5°	7.1	7.1	7.1	10.7	14.3	21.4	25.0	25.0	39.2	46.4	53.5
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°	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0	7268.0
2.5°	7339.4	7293.0	7321.5	7332.2	7332.2	7321.5	7275.1	7260.9	7239.5	7207.4	7207.4
5°	7503.5	7467.8	7475.0	7457.1	7414.3	7360.8	7275.1	7232.3	7196.7	7157.4	7153.8
7.5°	7785.4	7739.0	7731.9	7664.1	7549.9	7435.7	7307.3	7228.8	7175.2	7125.3	7121.7
10°	8152.9	8110.1	8056.5	7921.0	7753.3	7585.6	7410.7	7303.7	7225.2	7153.8	7150.3
12.5°	8563.2	8513.2	8413.3	8213.5	8003.0	7838.9	7639.1	7475.0	7357.2	7260.9	7243.0
15°	9009.2	8937.8	8766.6	8531.1	8324.1	8149.3	7935.2	7699.7	7521.3	7367.9	7350.1
17.5°	9351.7	9259.0	9073.4	8852.2	8680.9	8506.1	8227.8	7931.7	7674.8	7482.1	7453.5
20°	9587.2	9512.3	9301.8	9137.6	9037.7	8884.3	8559.6	8224.2	7935.2	7692.6	7678.3
22.5°	9804.9	9715.7	9508.7	9412.4	9412.4	9308.9	8998.5	8602.4	8263.5	7981.6	7945.9
25°	10051.0	9954.7	9797.7	9787.0	9837.0	9790.6	9415.9	8991.4	8595.3	8277.8	8220.7
27.5°	10393.6	10286.5	10193.8	10258.0	10329.4	10279.4	9861.9	9369.6	8952.1	8631.0	8581.0
30°	10939.5	10807.5	10721.8	10800.3	10939.5	10793.2	10340.1	9819.1	9398.1	9044.9	9019.9
32.5°	11574.6	11424.7	11335.5	11460.4	11585.3	11356.9	10907.4	10407.8	9965.4	9594.3	9551.5
35°	12338.1	12149.0	12017.0	12184.7	12313.2	12088.4	11642.4	11167.8	10675.4	10290.1	10233.0
37.5°	13016.1	12787.7	12698.5	12934.0	13105.3	12959.0	12473.7	12027.7	11489.0	11067.9	11043.0
40°	13508.4	13283.7	13219.4	13608.3	13908.1	13872.4	13437.1	12926.9	12420.2	11935.0	11888.6
42.5°	13722.5	13565.5	13579.8	14104.3	14568.1	14796.5	14407.6	13861.7	13372.9	12869.8	12837.7
45°	13768.9	13672.6	13786.7	14443.3	15053.4	15520.8	15189.0	14732.3	14179.2	13694.0	13679.7
47.5°	13818.9	13765.3	13940.2	14635.9	15360.2	15902.6	15717.0	15246.1	14685.9	14211.3	14175.7
50°	13936.6	13915.2	14111.4	14771.5	15506.5	16006.0	15795.5	15328.1	14753.7	14286.3	14200.6
52.5°	13972.3	13936.6	14218.5	14982.0	15749.1	16002.5	15549.3	14939.2	14361.2	13840.3	13751.1
55°	14082.9	14018.7	14211.3	15060.5	16084.5	16209.4	15535.1	14621.7	13815.3	13105.3	12894.7
57.5°	14111.4	14040.1	14164.9	14932.1	15720.6	15610.0	13654.7	11799.4	10279.4	9490.9	9580.1
60°	13958.0	13979.4	13765.3	13679.7	12609.3	11132.2	8359.8	6682.9	5248.5	4642.0	4774.0
62.5°	10625.5	10714.7	9983.3	8680.9	6675.7	5291.3	3500.2	2718.8	2301.4	2194.3	2212.2
65°	5362.7	5484.0	4724.0	3907.0	2904.3	2347.7	2030.2	1966.0	1944.6	1919.6	1919.6
67.5°	2123.0	2158.6	2130.1	1994.5	1855.4	1805.4	1791.1	1784.0	1759.0	1744.8	1748.3
70°	1705.5	1734.0	1691.2	1605.6	1548.5	1544.9	1537.8	1523.5	1505.7	1505.7	1516.4
72.5°	1391.5	1420.1	1359.4	1305.9	1263.1	1231.0	1213.1	1202.4	1177.4	1177.4	1188.1
75°	1024.0	1041.9	991.9	984.8	938.4	906.3	877.7	863.5	831.3	817.1	827.8
77.5°	681.5	677.9	652.9	652.9	635.1	595.9	563.7	531.6	488.8	460.3	467.4
80°	442.4	442.4	431.7	431.7	413.9	381.8	342.5	310.4	285.4	264.0	264.0
82.5°	281.9	278.3	274.7	271.2	264.0	231.9	203.4	182.0	164.1	149.9	153.4
85°	157.0	157.0	149.9	149.9	135.6	117.7	103.5	89.2	78.5	74.9	74.9
87.5°	53.5	53.5	50.0	50.0	42.8	32.1	25.0	21.4	17.8	14.3	17.8
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)