

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: P641222

Luminaire Tested: GWS-SA5F-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41015.8 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

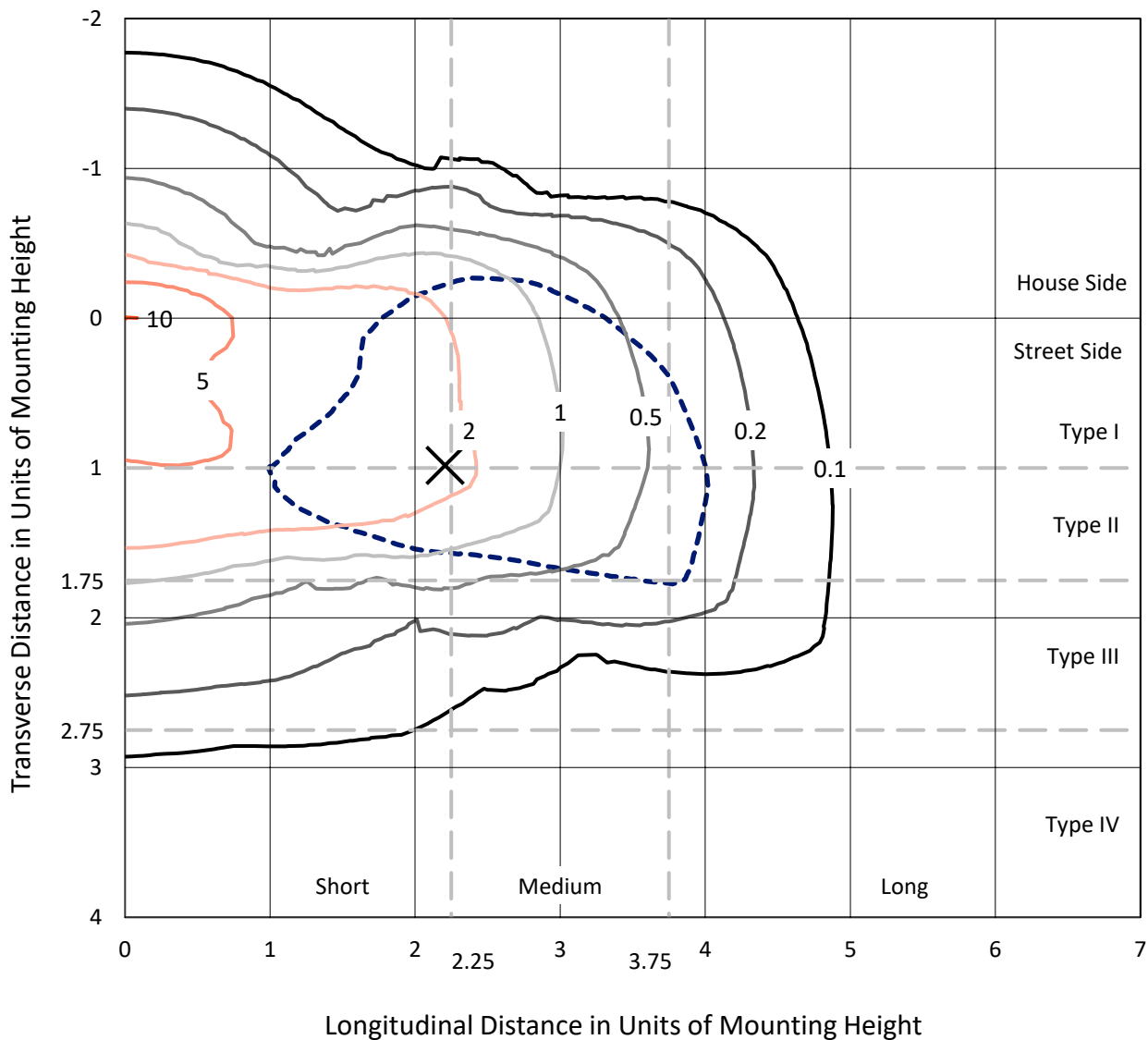
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

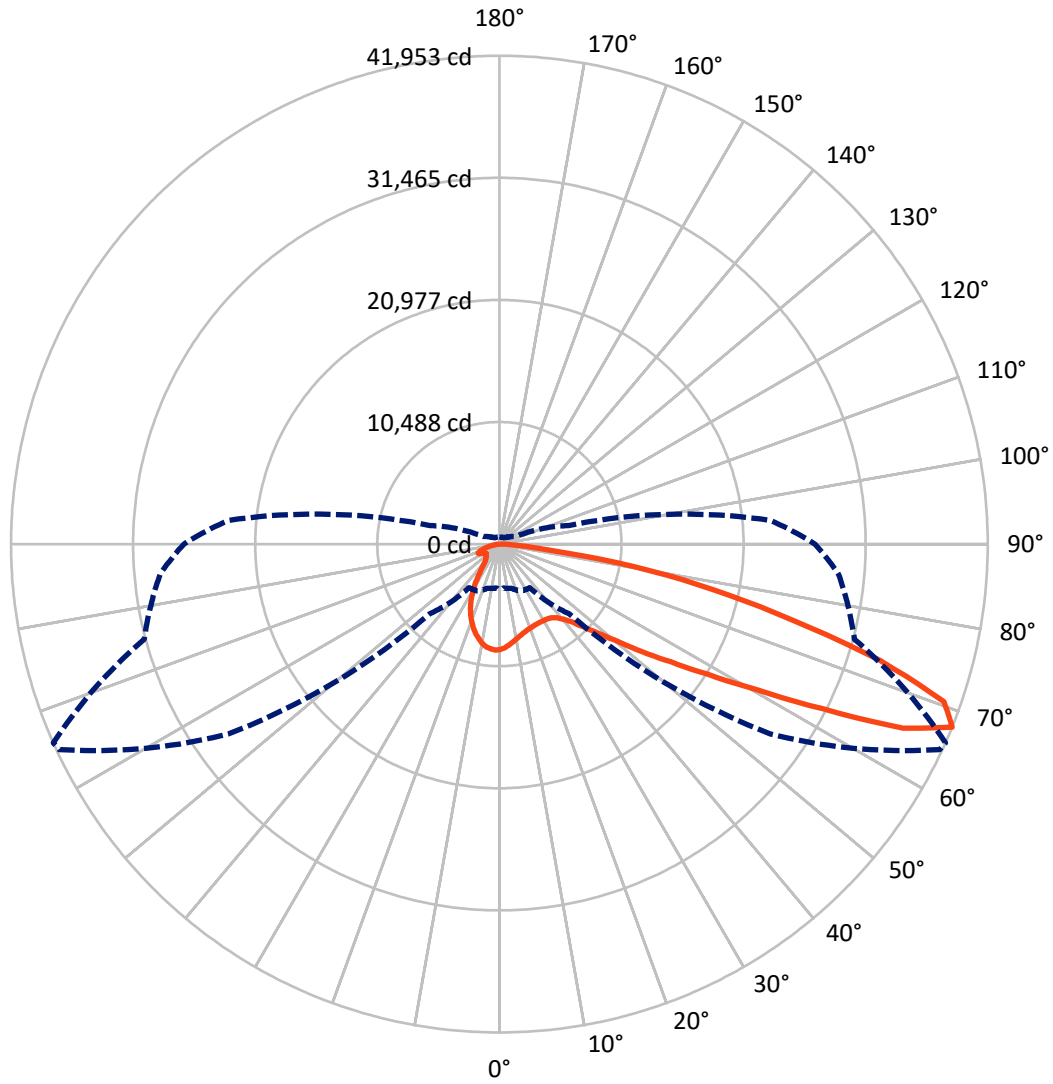
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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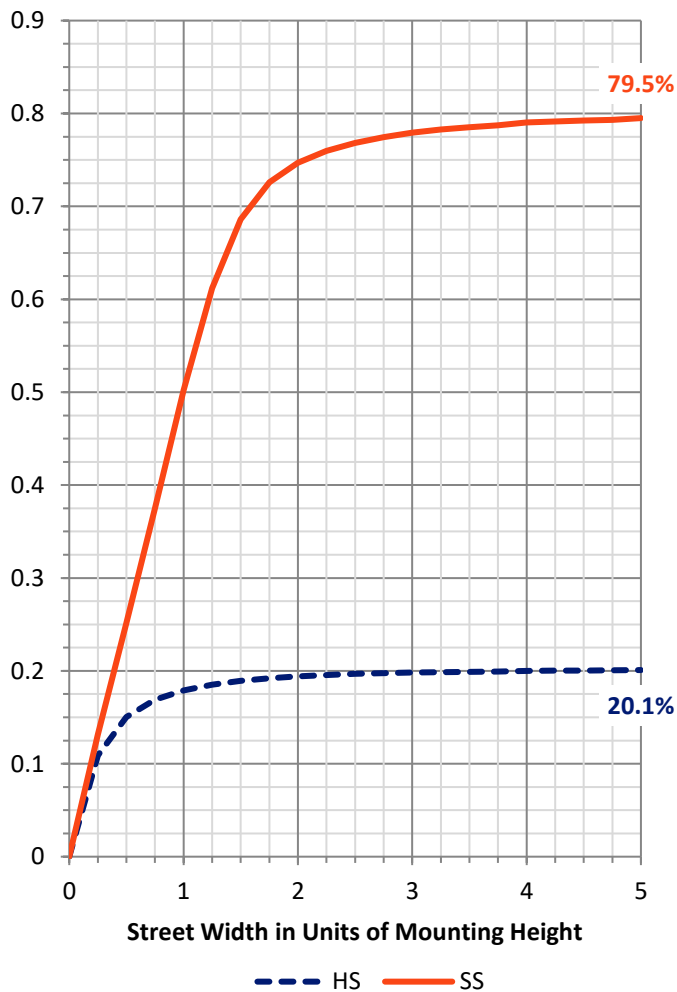
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8323.1	0.0	8323.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	32692.7	0.0	32692.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	41015.8	0.0	41015.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.4	1.9
10°-20°	1954.8	4.8
20°-30°	2687.0	6.6
30°-40°	3673.6	9.0
40°-50°	5566.4	13.6
50°-60°	8653.1	21.1
60°-70°	10535.0	25.7
70°-80°	6417.4	15.6
80°-90°	733.0	1.8
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°	41015.8	100.0
0°-180°	41015.8	100.0

Coefficient of Utilization



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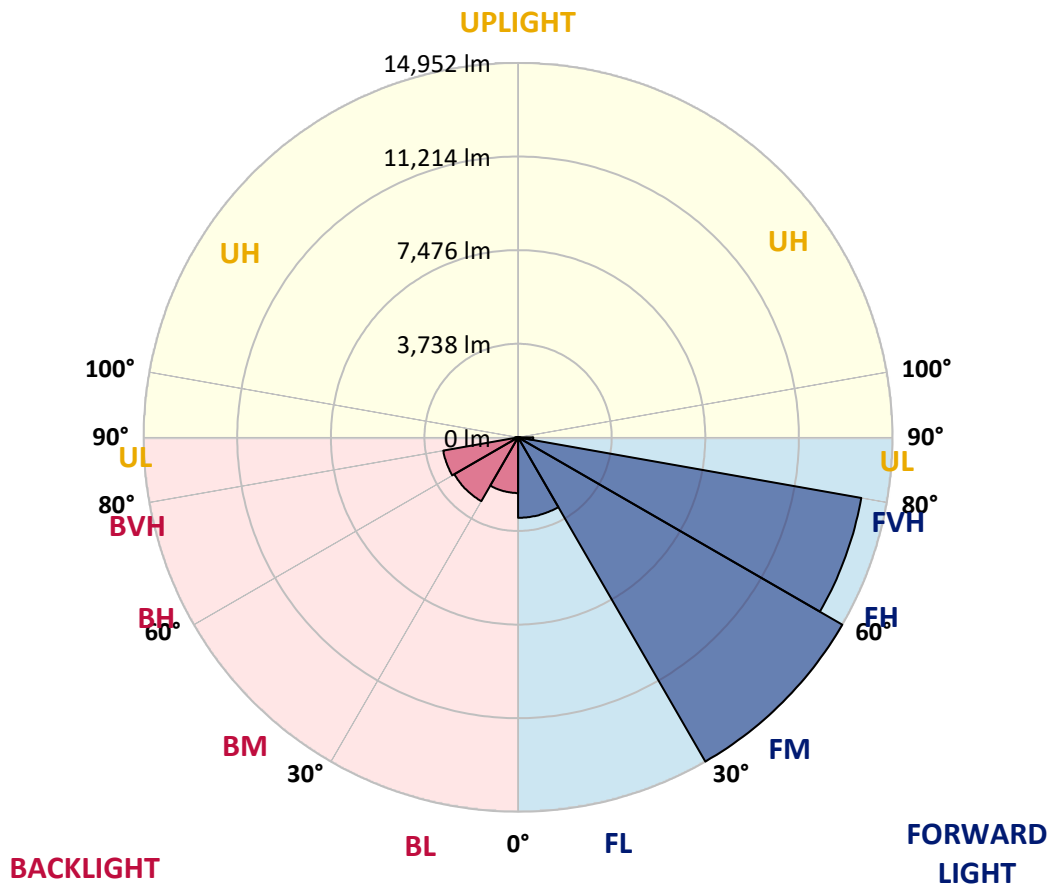
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3213.8	7.8			
FM (30°-60°)	14951.8	36.5			
FH (60°-80°)	13917.7	33.9			G5
FVH (80°-90°)	609.4	1.5			G4/750
BL (0°-30°)	2223.5	5.4	B3/2500		
BM (30°-60°)	2941.3	7.2	B3/5000		
BH (60°-80°)	3034.7	7.4	B4/5000		G4/5000
BVH (80°-90°)	123.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3
2.5°	8488.8	8518.7	8500.8	8614.5	8620.5	8764.1	8844.9	8913.7	8919.7	9009.5	9069.3
5°	7908.3	7926.3	7926.3	8034.0	8105.8	8297.3	8482.8	8680.3	8695.3	8910.7	9075.3
7.5°	7438.6	7456.5	7444.6	7588.2	7680.9	7893.4	8129.8	8432.0	8461.9	8809.0	9096.2
10°	7070.5	7064.5	7094.5	7226.1	7345.8	7600.1	7863.5	8207.6	8252.4	8692.3	9120.2
12.5°	6819.2	6825.2	6843.1	6980.8	7109.4	7360.8	7633.1	8007.1	8055.0	8557.6	9108.2
15°	6699.5	6687.5	6702.5	6828.2	6950.8	7172.3	7453.5	7839.5	7887.4	8438.0	9111.2
17.5°	6672.6	6663.6	6660.6	6750.4	6843.1	7049.6	7318.9	7710.9	7761.7	8360.2	9129.2
20°	6756.4	6744.4	6711.5	6750.4	6789.3	6962.8	7223.1	7618.1	7675.0	8309.3	9165.1
22.5°	6986.8	6965.8	6914.9	6867.1	6816.2	6920.9	7163.3	7549.3	7606.1	8276.4	9201.0
25°	7336.8	7318.9	7265.0	7157.3	6971.8	6953.8	7151.3	7519.4	7576.2	8252.4	9215.9
27.5°	7818.6	7791.6	7737.8	7582.2	7280.0	7076.5	7196.2	7516.4	7570.2	8225.5	9201.0
30°	8390.1	8372.1	8342.2	8153.7	7749.8	7336.8	7297.9	7540.3	7582.2	8210.6	9171.0
32.5°	8970.6	8952.6	8976.6	8886.8	8390.1	7767.7	7519.4	7606.1	7636.1	8207.6	9144.1
35°	9482.2	9503.2	9676.7	9691.7	9204.0	8351.2	7869.4	7758.7	7764.7	8267.4	9156.1
37.5°	10017.8	10098.6	10326.0	10520.5	10113.6	9123.2	8390.1	8046.0	8040.0	8420.0	9230.9
40°	10727.0	10762.9	11053.1	11418.2	11163.8	10182.4	9129.2	8515.8	8473.9	8731.2	9431.4
42.5°	11418.2	11505.0	11968.7	12387.6	12303.9	11376.3	10059.7	9218.9	9144.1	9281.8	9844.3
45°	12297.9	12381.7	12902.3	13440.9	13593.5	12725.8	11250.6	10218.3	10143.5	10110.6	10601.3
47.5°	13177.6	13264.4	13731.1	14509.1	15044.7	14413.4	12800.6	11537.9	11415.2	11286.5	11744.3
50°	13770.0	13871.8	14317.6	15251.2	16507.9	16519.9	14637.8	13267.3	13111.8	12908.3	13354.1
52.5°	13749.1	13814.9	14239.8	15317.0	17561.1	18940.5	17097.3	15469.6	15343.9	14901.1	15290.1
55°	12668.9	12767.7	13195.5	14542.0	17674.8	21235.5	20711.9	18066.8	17842.4	17049.5	17477.4
57.5°	10499.6	10583.4	11014.2	12674.9	16666.5	22411.5	25301.9	21376.2	21068.0	19389.4	19883.1
60°	7926.3	7824.6	8028.0	9482.2	14254.8	22441.4	29353.3	25864.4	25349.8	21890.8	22303.7
62.5°	5948.5	5846.7	5891.6	6301.5	9664.8	20628.1	31663.3	32004.4	31154.6	24715.4	24634.7
65°	4700.7	4643.9	4772.5	5053.8	5634.3	15709.0	31681.3	38644.1	38108.5	27988.9	27025.4
67.5°	3830.0	3794.1	3925.7	4446.4	4569.1	8441.0	28407.8	41744.0	41953.4	31573.5	29242.6
70°	3084.9	3031.1	3237.5	3922.8	4248.9	5107.7	20349.8	40164.1	40502.2	33710.0	28617.3
72.5°	2130.4	2133.4	2238.2	3177.7	4102.3	4410.5	11510.9	33443.6	34176.7	31774.0	25158.3
75°	1436.2	1448.2	1478.1	2097.5	3779.1	4278.8	6134.0	25319.9	25837.5	26262.4	20795.7
77.5°	867.7	873.7	942.5	1268.7	2606.2	3994.6	4156.1	18354.1	18761.0	17312.8	12890.3
80°	502.7	523.6	586.5	849.8	1759.4	3001.2	3216.6	11253.6	11714.4	7695.9	4096.3
82.5°	221.4	236.4	320.2	493.7	1026.3	2552.3	2510.4	4446.4	4380.6	2145.4	1421.3
85°	38.9	47.9	68.8	155.6	377.0	1346.5	1947.9	1962.9	1846.2	813.9	589.5
87.5°	0.0	0.0	0.0	0.0	0.0	9.0	293.2	526.6	523.6	230.4	203.5
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°	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3	9063.3
2.5°	9108.2	9027.4	9099.2	9108.2	9093.2	9081.3	8991.5	8913.7	8904.7	8821.0	8821.0
5°	9141.1	9066.3	9102.2	9033.4	8925.7	8815.0	8623.5	8491.8	8432.0	8324.3	8324.3
7.5°	9186.0	9108.2	9066.3	8895.8	8644.4	8402.1	8093.9	7836.5	7731.8	7579.2	7573.2
10°	9227.9	9129.2	8985.5	8653.4	8252.4	7866.5	7417.6	7052.6	6804.2	6621.7	6621.7
12.5°	9224.9	9096.2	8812.0	8321.3	7767.7	7208.2	6609.7	6059.2	5730.0	5445.8	5427.8
15°	9218.9	9042.4	8590.6	7935.3	7202.2	6427.2	5613.3	4895.2	4407.5	4129.2	4105.3
17.5°	9212.9	8973.6	8342.2	7495.4	6514.0	5457.7	4383.6	3605.6	3198.6	3028.1	3034.1
20°	9212.9	8895.8	8075.9	6989.7	5721.1	4296.8	3216.6	2651.1	2549.3	2558.3	2567.3
22.5°	9186.0	8800.0	7779.7	6439.2	4838.4	3159.7	2372.8	2181.3	2235.2	2318.9	2330.9
25°	9123.2	8641.4	7435.6	5828.8	3788.1	2301.0	1935.9	1900.0	1998.8	2103.5	2133.4
27.5°	9024.4	8458.9	7049.6	5113.6	2788.7	1849.2	1702.6	1699.6	1777.4	1855.2	1882.1
30°	8919.7	8255.4	6642.6	4317.7	2019.7	1609.8	1552.9	1552.9	1591.8	1639.7	1633.7
32.5°	8797.0	8049.0	6205.8	3488.9	1645.7	1475.1	1457.2	1448.2	1454.2	1472.2	1472.2
35°	8692.3	7866.5	5757.0	2612.2	1475.1	1400.3	1382.4	1361.4	1352.5	1340.5	1346.5
37.5°	8653.4	7722.8	5293.2	1968.9	1391.4	1346.5	1316.6	1286.6	1265.7	1259.7	1256.7
40°	8716.2	7663.0	4829.4	1621.8	1331.5	1289.6	1256.7	1217.8	1199.9	1199.9	1199.9
42.5°	8961.6	7707.9	4356.6	1466.2	1289.6	1241.8	1193.9	1158.0	1152.0	1158.0	1161.0
45°	9410.4	7881.4	3865.9	1388.4	1253.7	1193.9	1137.0	1110.1	1110.1	1116.1	1116.1
47.5°	10212.3	8336.2	3381.2	1340.5	1217.8	1155.0	1095.1	1068.2	1065.2	1071.2	1071.2
50°	11600.7	9156.1	2944.3	1307.6	1190.9	1125.1	1065.2	1029.3	1020.3	1017.3	1017.3
52.5°	13351.1	10577.4	2666.0	1283.6	1158.0	1092.1	1032.3	984.4	966.5	957.5	957.5
55°	15466.6	12471.4	2666.0	1265.7	1116.1	1053.2	984.4	936.6	909.6	897.7	897.7
57.5°	17863.3	14676.7	3126.8	1250.7	1083.2	1008.4	933.6	885.7	855.8	837.8	837.8
60°	20302.0	17007.6	4266.9	1229.8	1053.2	951.5	876.7	831.8	792.9	772.0	769.0
62.5°	22830.4	19574.9	5768.9	1241.8	1032.3	897.7	816.9	766.0	733.1	712.1	709.1
65°	25146.3	22019.5	7082.5	1334.5	1035.3	849.8	748.0	703.2	676.2	649.3	646.3
67.5°	27112.2	23369.0	6160.9	1523.0	1098.1	792.9	679.2	634.3	610.4	592.5	589.5
70°	25735.8	21310.3	3494.9	1639.7	1184.9	733.1	601.4	571.5	547.6	535.6	532.6
72.5°	22007.5	18042.9	2336.9	1448.2	1080.2	655.3	529.6	505.7	487.7	472.8	469.8
75°	17827.4	14308.6	1786.3	1187.9	840.8	532.6	454.8	436.9	418.9	403.9	401.0
77.5°	10547.5	8267.4	1316.6	939.5	592.5	415.9	377.0	362.1	344.1	332.1	329.1
80°	3366.2	2872.5	834.8	646.3	392.0	320.2	290.2	278.3	260.3	245.4	242.4
82.5°	1283.6	1110.1	442.8	329.1	260.3	218.4	194.5	182.5	170.6	155.6	152.6
85°	568.5	532.6	245.4	176.5	140.6	107.7	95.7	89.8	74.8	62.8	59.8
87.5°	200.5	200.5	104.7	50.9	29.9	15.0	9.0	3.0	0.0	0.0	0.0
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)