

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: P641445

Luminaire Tested: GWS-SA5F-830-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26854.1 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

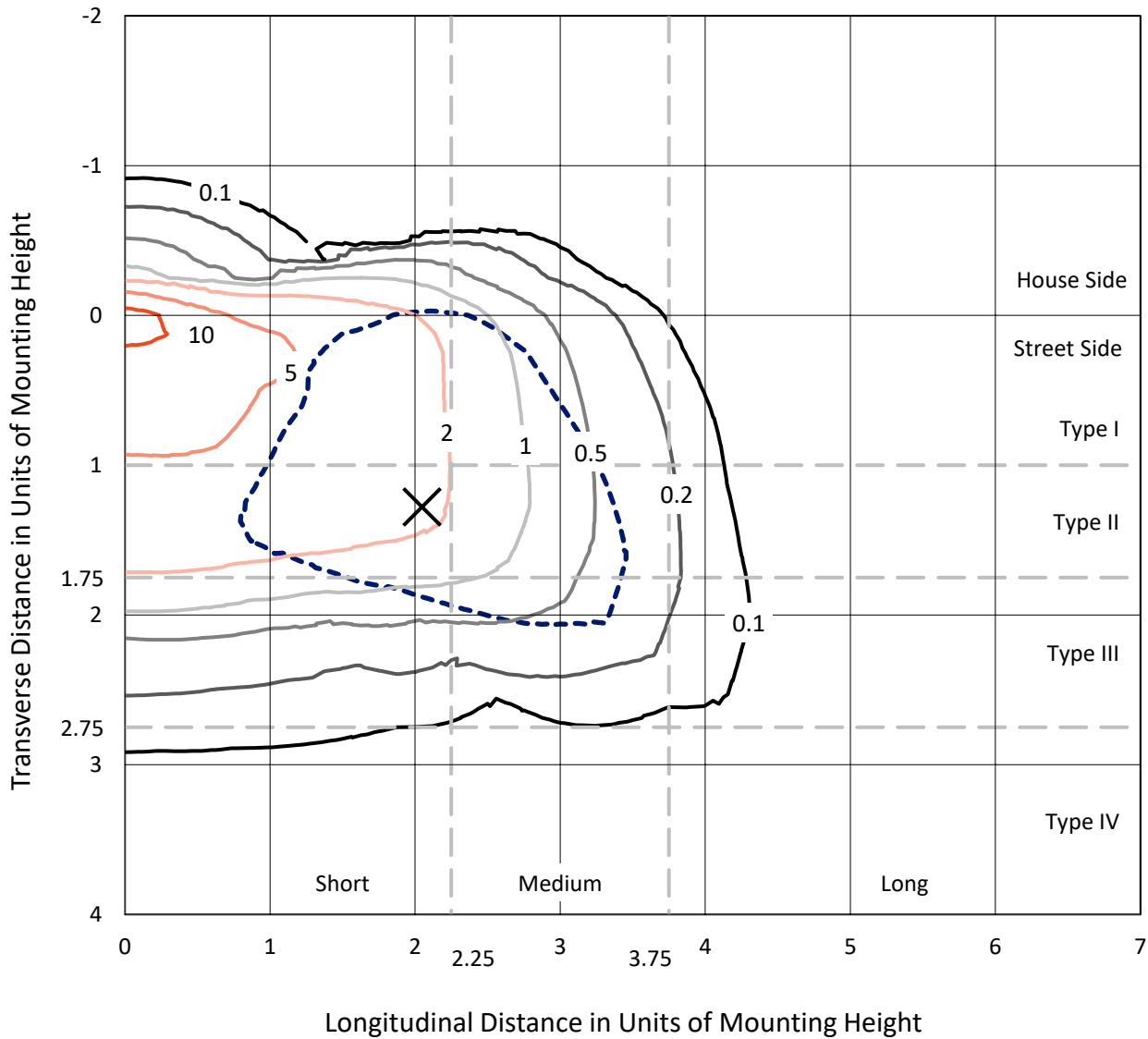
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

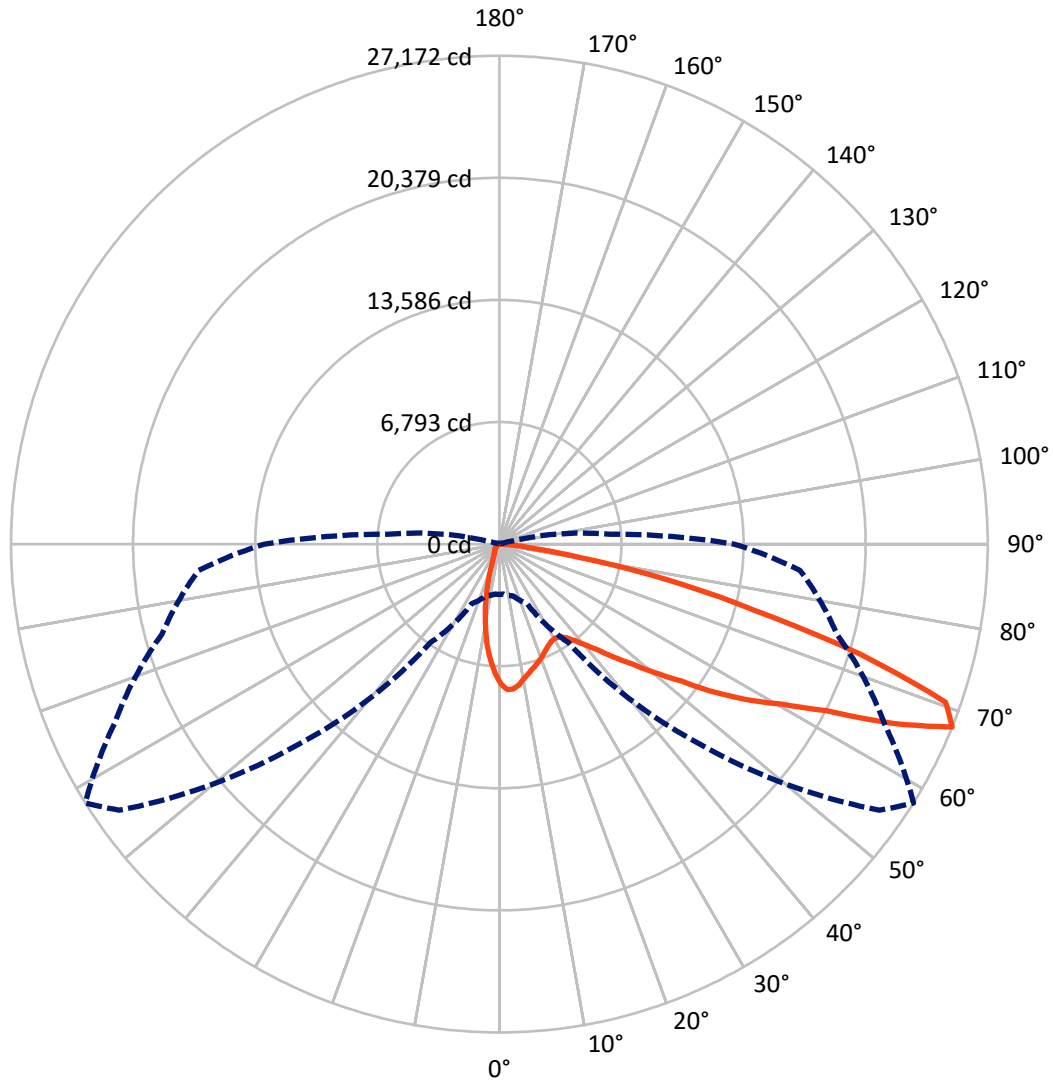
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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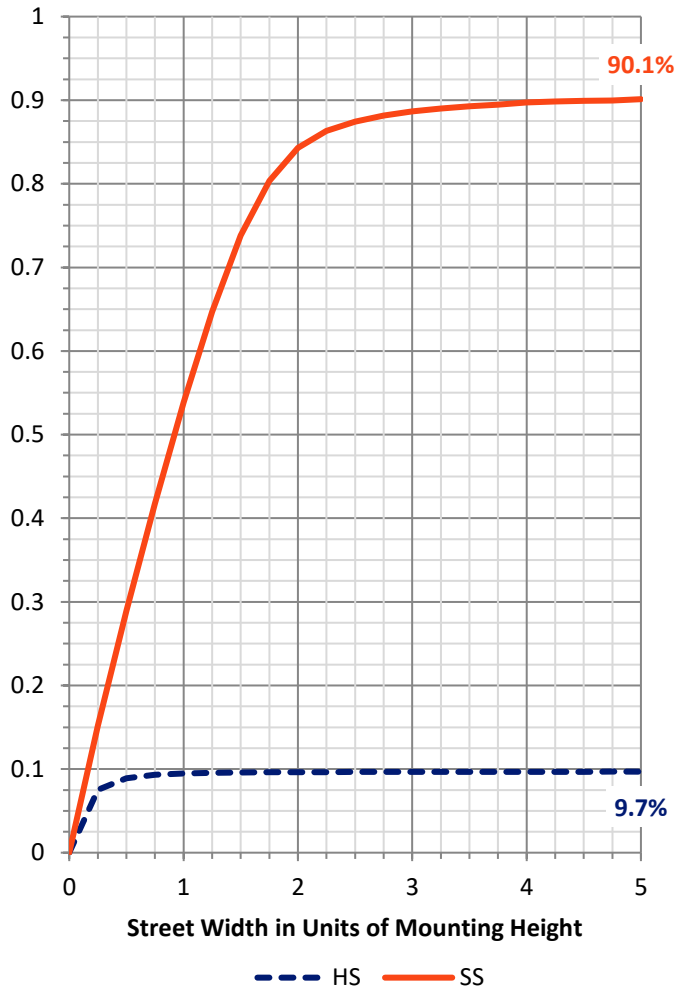
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2623.5	0.0	2623.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24230.6	0.0	24230.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	26854.1	0.0	26854.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.4	2.3
10°-20°	1310.3	4.9
20°-30°	1767.0	6.6
30°-40°	2483.0	9.2
40°-50°	3834.7	14.3
50°-60°	6132.2	22.8
60°-70°	7261.0	27.0
70°-80°	3212.1	12.0
80°-90°	224.5	0.8
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°	26854.1	100.0
0°-180°	26854.1	100.0

Coefficient of Utilization



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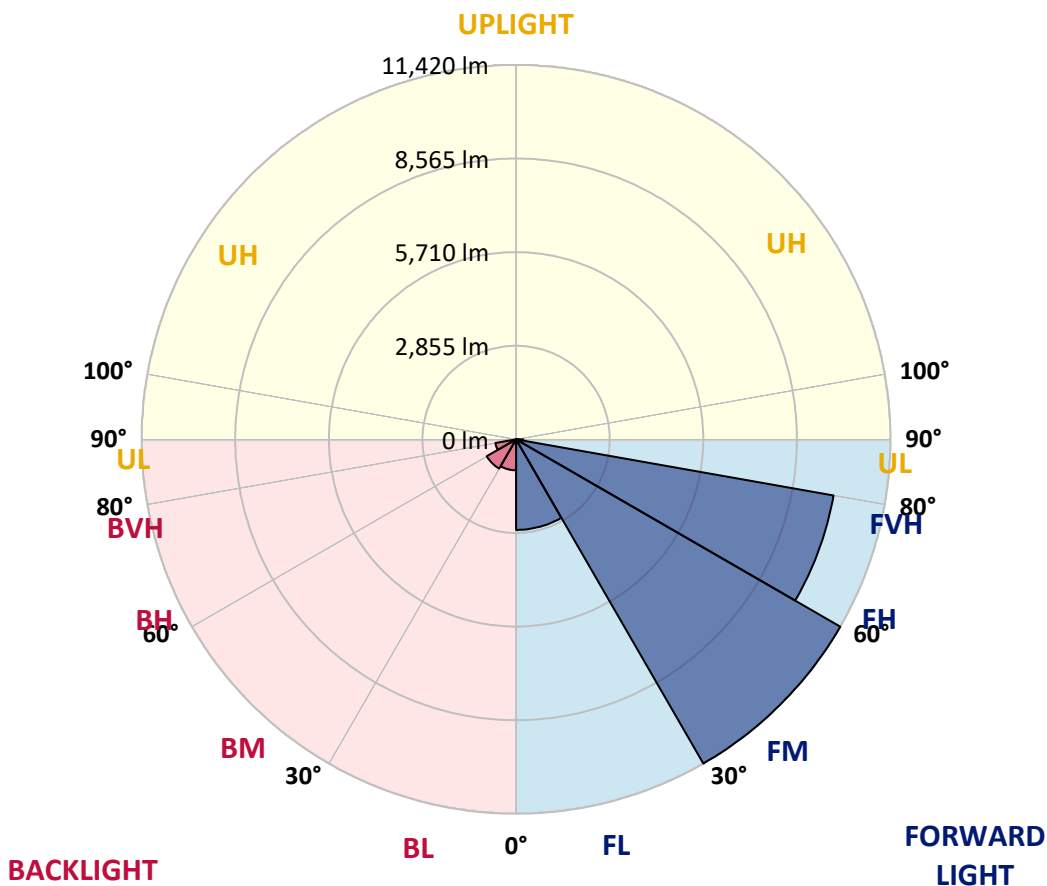
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.6	10.3			
FM (30°-60°)	11420.5	42.5			
FH (60°-80°)	9832.5	36.6			G4/12000
FVH (80°-90°)	215.0	0.8			G2/225
BL (0°-30°)	944.1	3.5	B2/1000		
BM (30°-60°)	1029.4	3.8	B2/2500		
BH (60°-80°)	640.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0
2.5°	8147.7	8161.9	8180.9	8204.7	8200.0	8178.6	8152.4	8093.0	8055.0	7936.1	7791.1
5°	7886.2	7883.8	7931.4	7976.5	8057.3	8100.1	8159.5	8104.9	8085.9	7943.3	7708.0
7.5°	7375.2	7401.3	7456.0	7527.3	7643.8	7769.8	7912.4	7895.7	7952.8	7857.7	7565.3
10°	6873.7	6859.4	6945.0	7052.0	7230.2	7391.8	7598.6	7596.2	7746.0	7736.5	7403.7
12.5°	6434.0	6431.6	6498.2	6619.4	6828.5	7054.3	7334.8	7341.9	7527.3	7603.4	7265.9
15°	6063.2	6068.0	6132.1	6258.1	6474.4	6750.1	7075.7	7135.1	7344.3	7498.8	7130.4
17.5°	5799.4	5801.8	5839.8	5949.1	6160.7	6455.4	6847.6	6928.4	7196.9	7420.4	7021.1
20°	5678.2	5668.7	5675.8	5730.5	5894.5	6163.0	6614.6	6719.2	7061.5	7365.7	6921.2
22.5°	5694.8	5680.5	5647.3	5640.1	5713.8	5918.2	6367.4	6495.8	6914.1	7332.4	6830.9
25°	5842.2	5811.3	5763.7	5692.4	5663.9	5766.1	6151.2	6284.3	6776.2	7334.8	6762.0
27.5°	6068.0	6034.7	5975.3	5880.2	5768.5	5725.7	6003.8	6129.8	6678.8	7389.5	6728.7
30°	6355.6	6329.4	6272.4	6158.3	6008.5	5832.7	5972.9	6077.5	6631.3	7501.2	6743.0
32.5°	6695.4	6676.4	6628.9	6524.3	6353.2	6084.6	6077.5	6158.3	6669.3	7662.8	6797.6
35°	7023.4	7030.6	7032.9	6975.9	6792.9	6467.3	6365.1	6393.6	6826.2	7905.2	6921.2
37.5°	7377.6	7360.9	7446.5	7486.9	7311.0	6964.0	6809.5	6811.9	7125.6	8264.1	7154.2
40°	7646.2	7650.9	7836.3	8002.7	7929.0	7593.9	7372.8	7370.4	7586.7	8756.1	7529.7
42.5°	7898.1	7929.0	8202.3	8487.5	8589.7	8292.6	8133.4	8074.0	8233.2	9421.6	8093.0
45°	8166.7	8211.8	8594.5	9000.9	9269.5	9093.6	8967.7	8991.4	9010.4	10196.5	8851.2
47.5°	8480.4	8508.9	8981.9	9554.7	10056.2	10011.1	10018.2	9989.7	9980.2	11173.3	9854.2
50°	8860.7	8927.3	9471.5	10156.1	10840.6	11140.0	11239.9	11251.8	11097.3	12238.1	10892.9
52.5°	9668.8	9749.6	10215.5	10814.4	11696.2	12326.1	12732.5	12651.7	12414.0	13269.7	12031.3
55°	10621.9	10683.7	11132.9	11753.3	12742.0	13626.2	14591.2	14557.9	13975.6	14355.9	12967.8
57.5°	10712.2	10781.2	11477.6	12428.3	14084.9	15232.9	16247.8	16354.7	15501.5	15125.9	13804.4
60°	9697.3	9837.6	10788.3	12067.0	14598.3	17393.4	18063.7	18085.1	16620.9	15907.9	14826.5
62.5°	7772.1	7838.7	8796.5	10465.0	13806.8	18653.1	20837.4	20385.8	18058.9	17117.7	16445.1
65°	4073.8	4344.8	5179.0	7025.8	11197.1	18213.4	24174.4	24050.8	20644.9	18850.4	17704.8
67.5°	2795.1	2792.7	2990.0	3662.6	6676.4	15682.1	25812.0	27171.5	23634.9	19444.6	16792.1
70°	2127.2	2134.4	2310.2	2747.6	3458.2	10438.9	24015.2	26339.7	24191.0	17654.9	13581.0
72.5°	1411.8	1426.1	1718.4	2219.9	2761.8	5117.2	18662.6	21075.1	20354.9	14180.0	9559.5
75°	843.8	855.6	1064.8	1613.8	2455.2	2864.0	11857.8	14569.8	14011.2	9773.4	5124.4
77.5°	347.0	356.5	546.7	1005.4	1796.9	2224.7	6557.6	9533.3	8392.5	3886.1	1399.9
80°	145.0	149.7	263.8	703.5	1295.4	1395.2	3037.5	4480.3	3439.2	836.6	427.8
82.5°	52.3	54.7	97.4	387.4	805.7	1050.5	1533.0	1770.7	969.7	273.3	230.5
85°	2.4	2.4	23.8	130.7	306.6	297.1	877.0	848.5	320.9	114.1	137.9
87.5°	0.0	0.0	2.4	2.4	4.8	11.9	83.2	147.4	68.9	28.5	59.4
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°	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0
2.5°	7696.1	7570.1	7432.2	7303.9	7099.5	6978.3	6828.5	6762.0	6666.9	6643.1	6657.4
5°	7539.2	7322.9	6992.5	6693.1	6305.6	5994.3	5680.5	5547.4	5376.3	5262.2	5214.7
7.5°	7318.2	7035.3	6519.6	5975.3	5442.9	4874.8	4442.2	4157.0	3897.9	3755.3	3726.8
10°	7094.7	6726.3	5987.2	5207.6	4382.8	3703.1	3118.4	2685.8	2334.0	2174.8	2051.2
12.5°	6864.2	6405.5	5445.2	4428.0	3470.1	2543.2	1820.6	1399.9	1148.0	1048.2	1064.8
15°	6652.7	6096.5	4908.1	3648.4	2443.3	1535.4	1005.4	848.5	789.1	770.1	767.7
17.5°	6450.6	5804.1	4373.3	2890.2	1611.5	941.2	770.1	732.1	715.4	705.9	705.9
20°	6267.6	5523.7	3850.4	2177.1	1041.0	746.3	696.4	677.4	663.1	656.0	656.0
22.5°	6096.5	5252.7	3339.4	1540.2	767.7	670.3	639.4	620.3	603.7	594.2	594.2
25°	5942.0	5007.9	2852.2	1060.1	660.7	613.2	579.9	558.5	530.0	513.4	513.4
27.5°	5830.3	4789.2	2383.9	772.5	596.6	551.4	513.4	484.9	454.0	435.0	430.2
30°	5763.7	4603.9	1910.9	634.6	537.2	492.0	449.2	413.6	377.9	358.9	356.5
32.5°	5725.7	4432.7	1478.4	553.8	487.2	435.0	387.4	349.4	313.7	292.3	290.0
35°	5740.0	4299.6	1107.6	499.1	439.7	385.0	332.8	294.7	263.8	244.8	240.1
37.5°	5863.6	4240.2	831.9	456.3	399.3	342.3	287.6	251.9	223.4	209.2	206.8
40°	6103.6	4252.1	653.6	423.1	366.0	299.5	247.2	213.9	192.5	180.6	178.3
42.5°	6476.8	4351.9	539.5	394.5	330.4	261.4	213.9	187.8	166.4	154.5	152.1
45°	7032.9	4558.7	470.6	361.3	292.3	225.8	185.4	161.6	142.6	128.3	126.0
47.5°	7838.7	4917.6	425.4	330.4	259.1	194.9	159.2	135.5	118.8	107.0	104.6
50°	8696.7	5347.8	387.4	299.5	230.5	168.8	135.5	111.7	97.4	85.6	83.2
52.5°	9611.8	5811.3	358.9	271.0	204.4	145.0	114.1	92.7	78.4	66.6	64.2
55°	10491.2	6277.1	325.6	251.9	173.5	123.6	95.1	76.1	61.8	52.3	52.3
57.5°	11346.8	6704.9	290.0	221.0	142.6	104.6	78.4	61.8	49.9	42.8	40.4
60°	12368.9	7296.8	249.6	187.8	118.8	87.9	64.2	49.9	40.4	33.3	33.3
62.5°	13887.6	7912.4	213.9	156.9	99.8	73.7	52.3	40.4	33.3	28.5	26.1
65°	14384.4	7579.6	180.6	128.3	80.8	59.4	42.8	35.7	28.5	26.1	23.8
67.5°	13058.1	6212.9	149.7	104.6	66.6	49.9	38.0	30.9	26.1	23.8	21.4
70°	10189.3	4409.0	116.5	78.4	54.7	40.4	33.3	28.5	23.8	21.4	21.4
72.5°	6930.7	2607.3	92.7	59.4	45.2	35.7	28.5	26.1	23.8	21.4	19.0
75°	3413.1	927.0	71.3	45.2	35.7	30.9	26.1	23.8	21.4	19.0	19.0
77.5°	919.8	256.7	54.7	35.7	28.5	23.8	23.8	23.8	21.4	16.6	16.6
80°	311.4	107.0	40.4	26.1	23.8	19.0	16.6	21.4	19.0	16.6	14.3
82.5°	171.1	52.3	28.5	21.4	16.6	14.3	14.3	14.3	14.3	11.9	11.9
85°	109.3	28.5	19.0	16.6	16.6	11.9	9.5	9.5	7.1	7.1	7.1
87.5°	49.9	16.6	16.6	14.3	14.3	11.9	7.1	4.8	2.4	2.4	2.4
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)