

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: P638860

Luminaire Tested: GWS-SA4F-760-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638860
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-SA4F-760-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27802.4 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

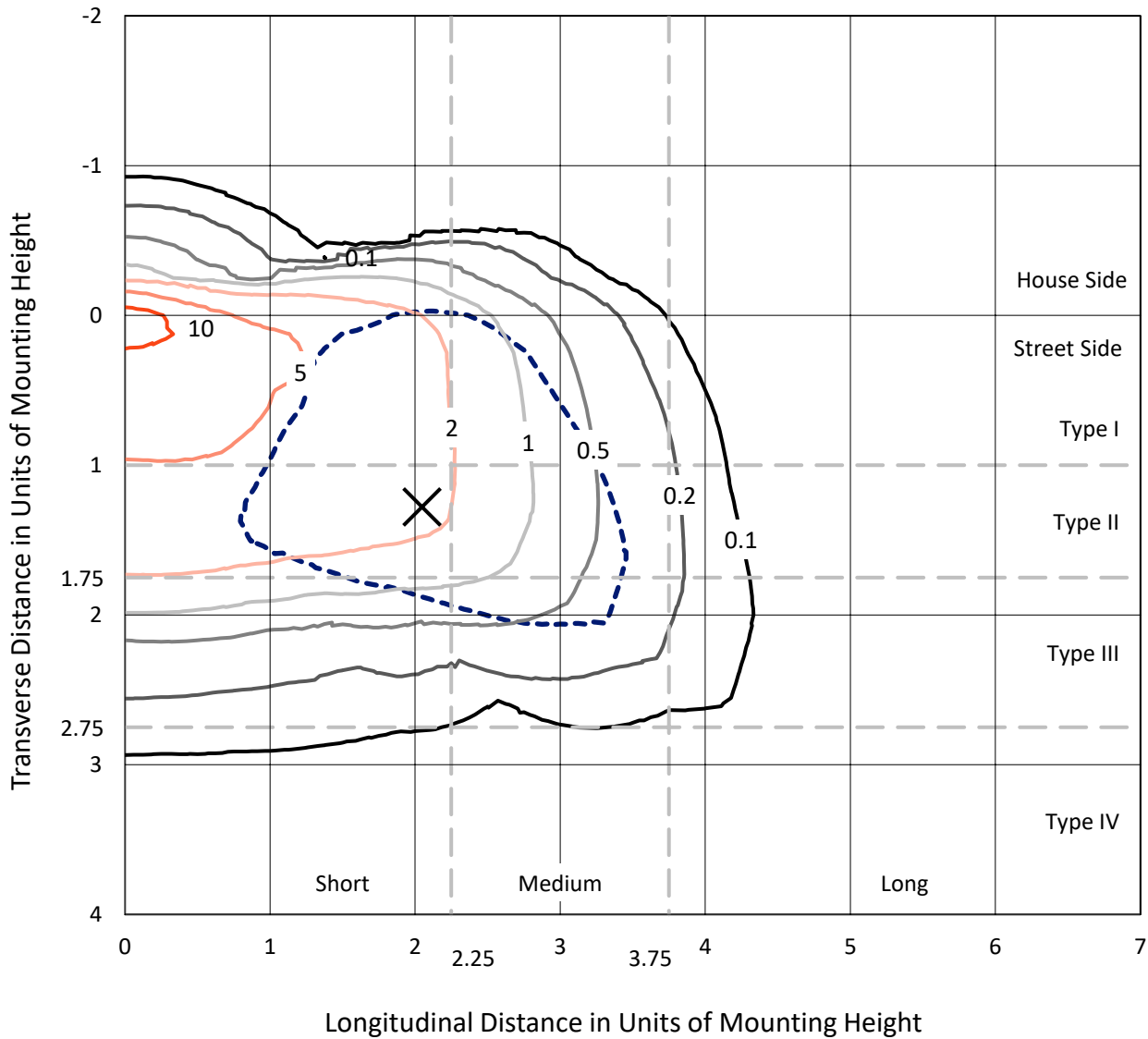
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

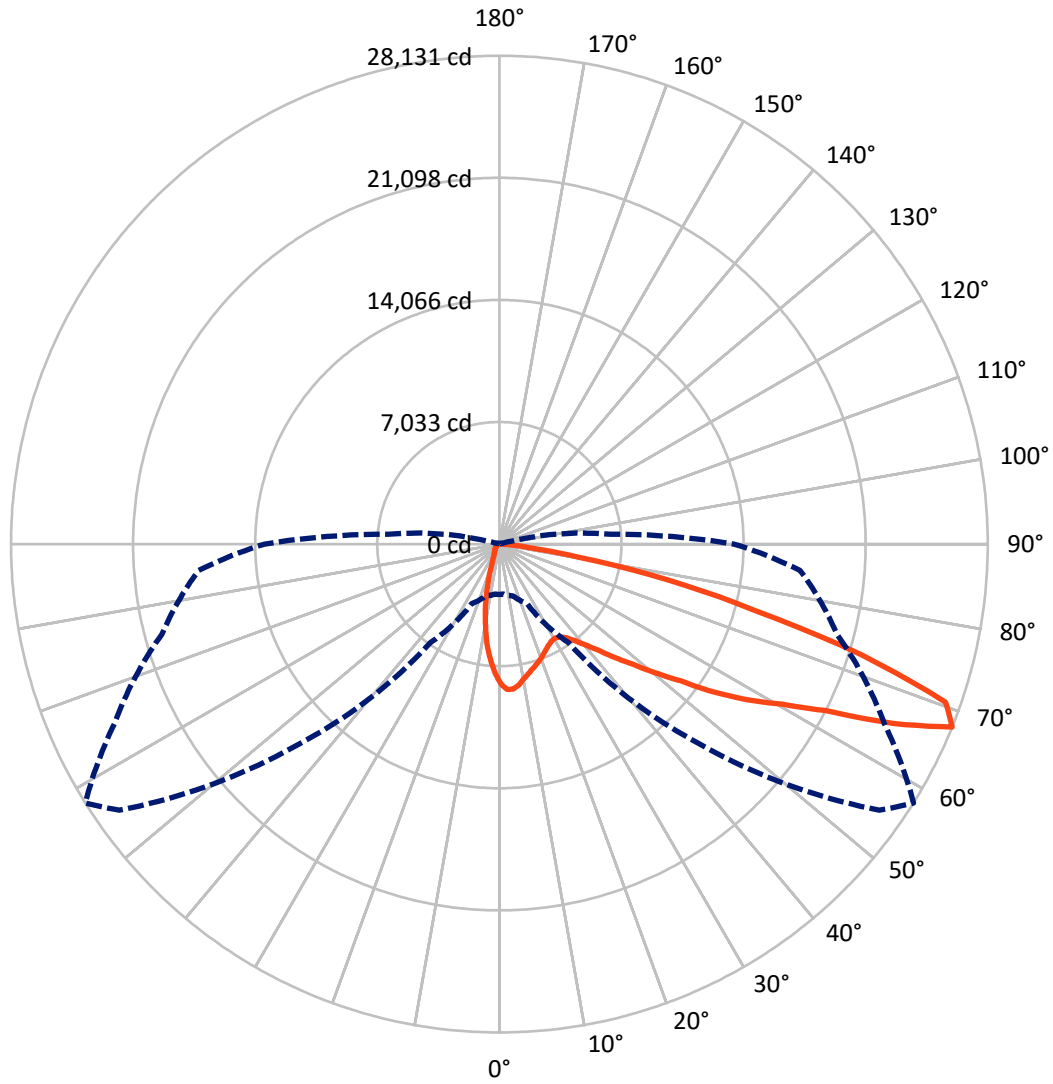
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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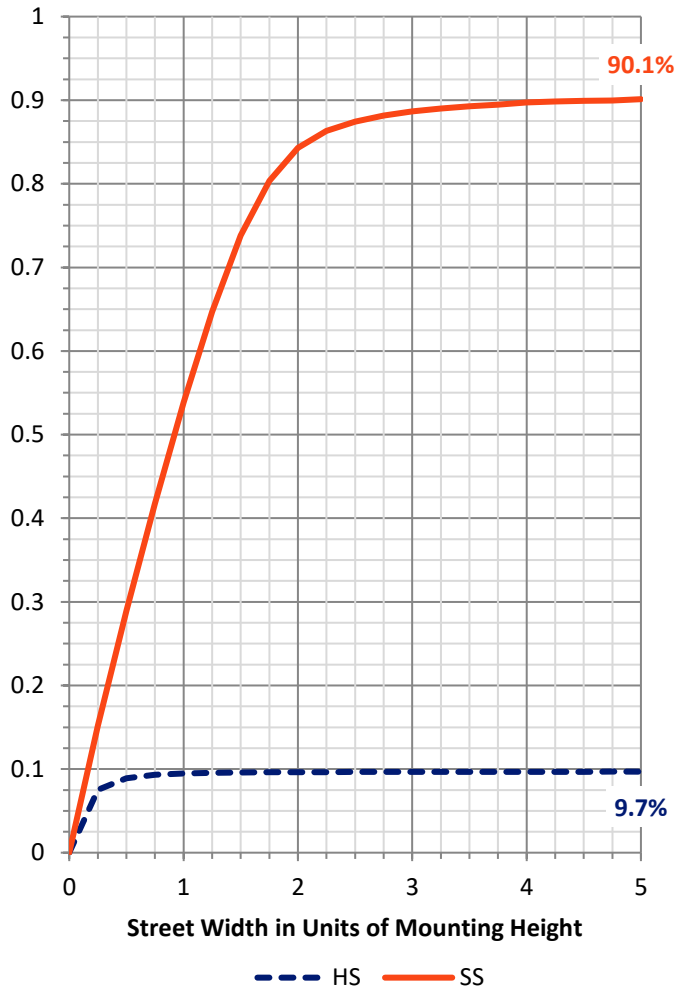
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2716.1	0.0	2716.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25086.3	0.0	25086.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	27802.4	0.0	27802.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.7	2.3
10°-20°	1356.5	4.9
20°-30°	1829.4	6.6
30°-40°	2570.6	9.2
40°-50°	3970.1	14.3
50°-60°	6348.7	22.8
60°-70°	7517.4	27.0
70°-80°	3325.5	12.0
80°-90°	232.5	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°	27802.4	100.0
0°-180°	27802.4	100.0

Coefficient of Utilization



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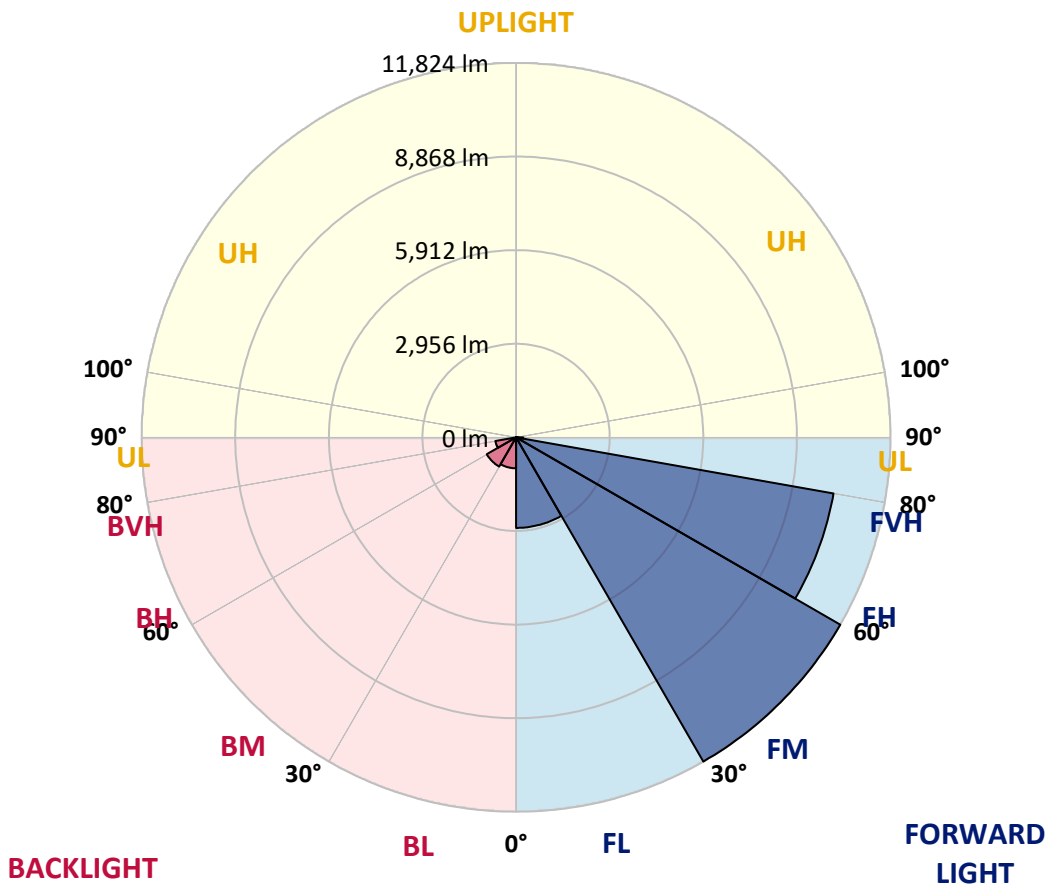
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2860.2	10.3			
FM (30°-60°)	11823.8	42.5			
FH (60°-80°)	10179.8	36.6			G4/12000
FVH (80°-90°)	222.6	0.8			G2/225
BL (0°-30°)	977.4	3.5	B2/1000		
BM (30°-60°)	1065.7	3.8	B2/2500		
BH (60°-80°)	663.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	9.9	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°	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5
2.5°	8435.4	8450.1	8469.8	8494.4	8489.5	8467.4	8440.3	8378.8	8339.4	8216.4	8066.3
5°	8164.7	8162.2	8211.5	8258.2	8341.9	8386.2	8447.7	8391.1	8371.4	8223.8	7980.1
7.5°	7635.6	7662.7	7719.3	7793.1	7913.7	8044.1	8191.8	8174.5	8233.6	8135.2	7832.5
10°	7116.4	7101.7	7190.3	7301.0	7485.5	7652.9	7867.0	7864.5	8019.5	8009.7	7665.2
12.5°	6661.2	6658.7	6727.6	6853.1	7069.7	7303.4	7593.8	7601.2	7793.1	7871.9	7522.4
15°	6277.3	6282.2	6348.7	6479.1	6703.0	6988.5	7325.6	7387.1	7603.7	7763.6	7382.2
17.5°	6004.2	6006.6	6046.0	6159.2	6378.2	6683.3	7089.4	7173.0	7451.1	7682.4	7269.0
20°	5878.7	5868.8	5876.2	5932.8	6102.6	6380.7	6848.2	6956.5	7310.8	7625.8	7165.6
22.5°	5895.9	5881.1	5846.7	5839.3	5915.6	6127.2	6592.3	6725.2	7158.3	7591.4	7072.1
25°	6048.5	6016.5	5967.3	5893.4	5863.9	5969.7	6368.4	6506.2	7015.5	7593.8	7000.8
27.5°	6282.2	6247.8	6186.3	6087.8	5972.2	5927.9	6215.8	6346.2	6914.6	7650.4	6966.3
30°	6580.0	6552.9	6493.9	6375.7	6220.7	6038.6	6183.8	6292.1	6865.4	7766.1	6981.1
32.5°	6931.9	6912.2	6863.0	6754.7	6577.5	6299.5	6292.1	6375.7	6904.8	7933.4	7037.7
35°	7271.5	7278.8	7281.3	7222.2	7032.8	6695.6	6589.8	6619.4	7067.2	8184.4	7165.6
37.5°	7638.1	7620.9	7709.5	7751.3	7569.2	7209.9	7050.0	7052.5	7377.3	8556.0	7406.8
40°	7916.2	7921.1	8113.0	8285.3	8209.0	7862.0	7633.2	7630.7	7854.6	9065.3	7795.6
42.5°	8177.0	8209.0	8492.0	8787.3	8893.1	8585.5	8420.6	8359.1	8524.0	9754.3	8378.8
45°	8455.1	8501.8	8898.0	9318.8	9596.8	9414.8	9284.3	9308.9	9328.6	10556.5	9163.8
47.5°	8779.9	8809.4	9299.1	9892.1	10411.3	10364.6	10372.0	10342.4	10332.6	11567.9	10202.2
50°	9173.6	9242.5	9806.0	10514.7	11223.4	11533.4	11636.8	11649.1	11489.1	12670.3	11277.5
52.5°	10010.2	10093.9	10576.2	11196.3	12109.2	12761.3	13182.1	13098.5	12852.4	13738.3	12456.2
55°	10997.0	11061.0	11526.1	12168.3	13192.0	14107.4	15106.4	15072.0	14469.1	14862.8	13425.7
57.5°	11090.5	11161.9	11882.9	12867.2	14582.3	15770.8	16821.5	16932.3	16048.9	15660.1	14291.9
60°	10039.8	10185.0	11169.3	12493.1	15113.8	18007.6	18701.5	18723.7	17207.9	16469.7	15350.0
62.5°	8046.6	8115.5	9107.2	10834.6	14294.4	19311.8	21573.2	21105.7	18696.6	17722.2	17025.8
65°	4217.7	4498.2	5361.9	7273.9	11592.5	18856.6	25028.1	24900.1	21373.9	19516.0	18330.0
67.5°	2893.8	2891.4	3095.6	3792.0	6912.2	16235.9	26723.5	28131.1	24469.5	20131.2	17385.1
70°	2202.4	2209.7	2391.8	2844.6	3580.4	10807.5	24863.2	27269.8	25045.3	18278.3	14060.6
72.5°	1461.7	1476.4	1779.1	2298.3	2859.4	5298.0	19321.6	21819.3	21073.7	14680.7	9897.1
75°	873.6	885.9	1102.4	1670.8	2541.9	2965.2	12276.6	15084.3	14506.0	10118.5	5305.3
77.5°	359.3	369.1	566.0	1040.9	1860.3	2303.2	6789.2	9870.0	8688.8	4023.3	1449.4
80°	150.1	155.0	273.1	728.4	1341.1	1444.4	3144.8	4638.5	3560.7	866.2	442.9
82.5°	54.1	56.6	100.9	401.1	834.2	1087.6	1587.2	1833.2	1004.0	283.0	238.7
85°	2.5	2.5	24.6	135.3	317.4	307.6	908.0	878.5	332.2	118.1	142.7
87.5°	0.0	0.0	2.5	2.5	4.9	12.3	86.1	152.6	71.4	29.5	61.5
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°	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5	8019.5
2.5°	7967.8	7837.4	7694.7	7561.8	7350.2	7224.7	7069.7	7000.8	6902.3	6877.7	6892.5
5°	7805.4	7581.5	7239.5	6929.4	6528.3	6206.0	5881.1	5743.3	5566.2	5448.1	5398.8
7.5°	7576.6	7283.8	6749.8	6186.3	5635.1	5047.0	4599.1	4303.8	4035.6	3888.0	3858.4
10°	7345.3	6963.9	6198.6	5391.5	4537.6	3833.8	3228.5	2780.6	2416.4	2251.6	2123.6
12.5°	7106.6	6631.7	5637.5	4584.3	3592.7	2633.0	1884.9	1449.4	1188.5	1085.2	1102.4
15°	6887.6	6311.8	5081.4	3777.2	2529.6	1589.6	1040.9	878.5	817.0	797.3	794.8
17.5°	6678.4	6009.1	4527.7	2992.2	1668.4	974.4	797.3	757.9	740.7	730.8	730.8
20°	6488.9	5718.7	3986.4	2254.0	1077.8	772.7	721.0	701.3	686.5	679.2	679.2
22.5°	6311.8	5438.2	3457.3	1594.6	794.8	693.9	661.9	642.3	625.0	615.2	615.2
25°	6151.8	5184.8	2952.9	1097.5	684.1	634.9	600.4	578.3	548.7	531.5	531.5
27.5°	6036.2	4958.4	2468.1	799.7	617.6	570.9	531.5	502.0	470.0	450.3	445.4
30°	5967.3	4766.4	1978.4	657.0	556.1	509.4	465.1	428.2	391.3	371.6	369.1
32.5°	5927.9	4589.3	1530.6	573.3	504.4	450.3	401.1	361.7	324.8	302.7	300.2
35°	5942.7	4451.5	1146.7	516.8	455.2	398.6	344.5	305.1	273.1	253.5	248.5
37.5°	6070.6	4389.9	861.3	472.5	413.4	354.3	297.7	260.8	231.3	216.5	214.1
40°	6319.2	4402.2	676.7	438.0	379.0	310.1	255.9	221.5	199.3	187.0	184.6
42.5°	6705.5	4505.6	558.6	408.5	342.0	270.7	221.5	194.4	172.3	159.9	157.5
45°	7281.3	4719.7	487.2	374.0	302.7	233.8	191.9	167.3	147.6	132.9	130.4
47.5°	8115.5	5091.2	440.5	342.0	268.2	201.8	164.9	140.3	123.0	110.7	108.3
50°	9003.8	5536.6	401.1	310.1	238.7	174.7	140.3	115.7	100.9	88.6	86.1
52.5°	9951.2	6016.5	371.6	280.5	211.6	150.1	118.1	96.0	81.2	68.9	66.4
55°	10861.7	6498.8	337.1	260.8	179.6	128.0	98.4	78.7	64.0	54.1	54.1
57.5°	11747.5	6941.7	300.2	228.8	147.6	108.3	81.2	64.0	51.7	44.3	41.8
60°	12805.6	7554.4	258.4	194.4	123.0	91.0	66.4	51.7	41.8	34.5	34.5
62.5°	14378.0	8191.8	221.5	162.4	103.4	76.3	54.1	41.8	34.5	29.5	27.1
65°	14892.3	7847.3	187.0	132.9	83.7	61.5	44.3	36.9	29.5	27.1	24.6
67.5°	13519.2	6432.3	155.0	108.3	68.9	51.7	39.4	32.0	27.1	24.6	22.1
70°	10549.1	4564.7	120.6	81.2	56.6	41.8	34.5	29.5	24.6	22.1	22.1
72.5°	7175.5	2699.4	96.0	61.5	46.8	36.9	29.5	27.1	24.6	22.1	19.7
75°	3533.6	959.7	73.8	46.8	36.9	32.0	27.1	24.6	22.1	19.7	19.7
77.5°	952.3	265.8	56.6	36.9	29.5	24.6	24.6	24.6	22.1	17.2	17.2
80°	322.4	110.7	41.8	27.1	24.6	19.7	17.2	22.1	19.7	17.2	14.8
82.5°	177.2	54.1	29.5	22.1	17.2	14.8	14.8	14.8	14.8	12.3	12.3
85°	113.2	29.5	19.7	17.2	17.2	12.3	9.8	9.8	7.4	7.4	7.4
87.5°	51.7	17.2	17.2	14.8	14.8	12.3	7.4	4.9	2.5	2.5	2.5
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)