

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: P638856

Luminaire Tested: GWS-SA4F-760-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 27211.8 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

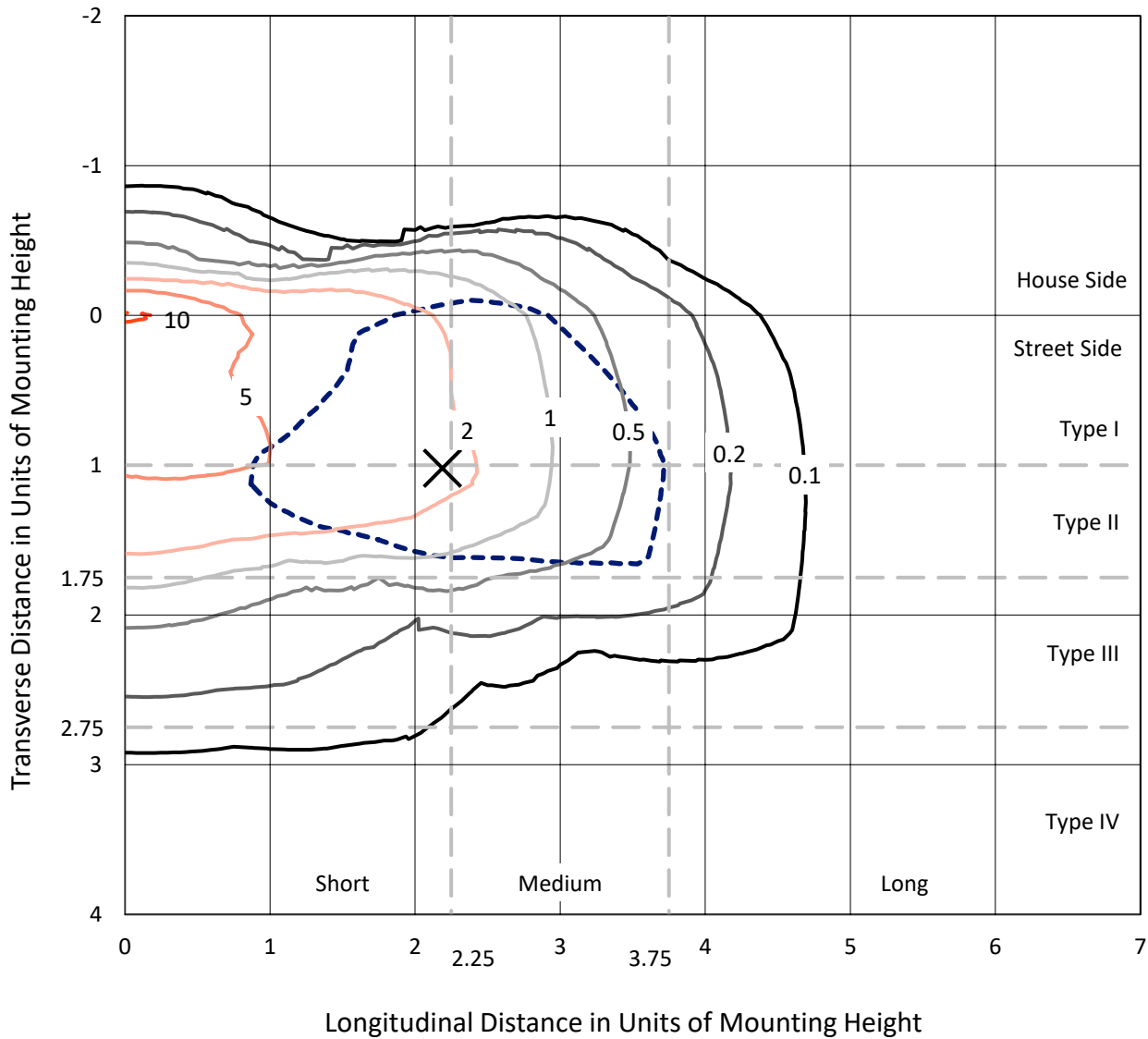
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

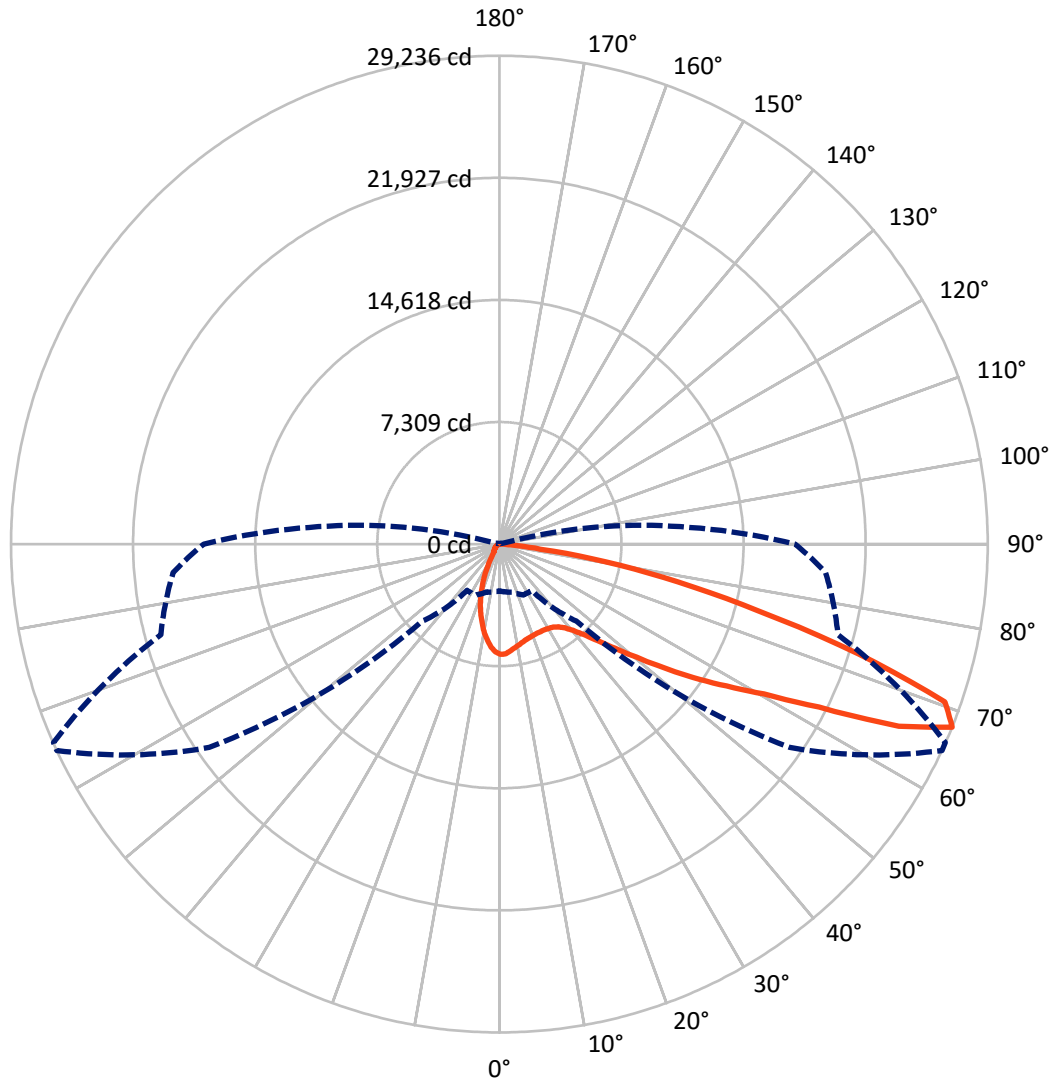
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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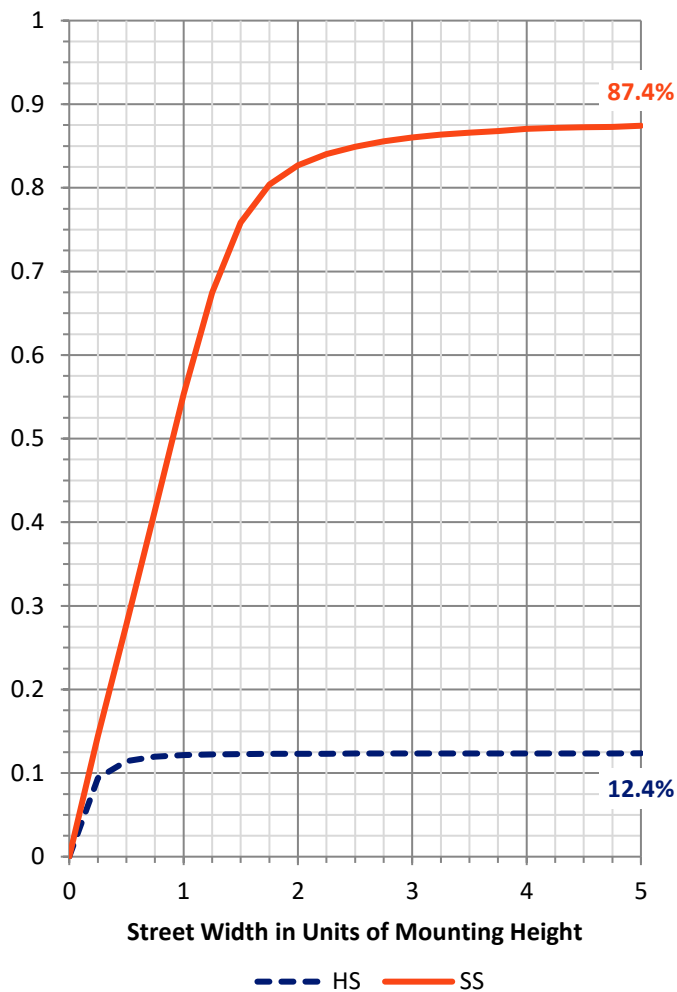
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3397.9	0.0	3397.9
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	23813.9	0.0	23813.9
	% Fixture	87.5	0.0	87.5
Total	Lumens	27211.8	0.0	27211.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.1	2.0
10°-20°	1232.2	4.5
20°-30°	1760.7	6.5
30°-40°	2561.6	9.4
40°-50°	4012.0	14.7
50°-60°	6258.8	23.0
60°-70°	6874.9	25.3
70°-80°	3658.8	13.4
80°-90°	304.6	1.1
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°	27211.8	100.0
0°-180°	27211.8	100.0

Coefficient of Utilization



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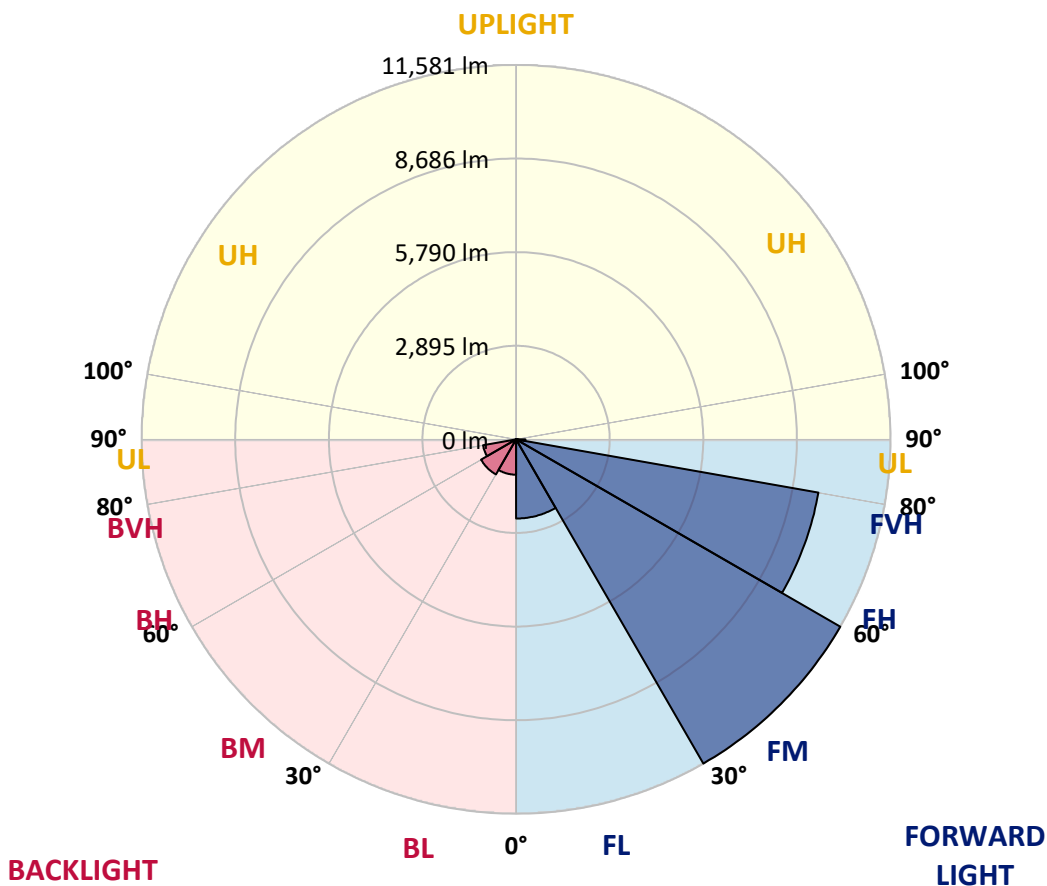
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2448.9	9.0			
FM (30°-60°)	11580.8	42.6			
FH (60°-80°)	9495.9	34.9			G4/12000
FVH (80°-90°)	288.3	1.1			G3/500
BL (0°-30°)	1092.2	4.0	B3/2500		
BM (30°-60°)	1251.6	4.6	B2/2500		
BH (60°-80°)	1037.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7
2.5°	6370.9	6390.6	6363.5	6429.9	6442.2	6516.1	6557.9	6587.4	6585.0	6621.9	6621.9
5°	5996.8	6016.5	6001.8	6073.1	6129.7	6245.4	6341.3	6452.1	6457.0	6570.2	6612.0
7.5°	5679.4	5681.9	5681.9	5770.4	5844.3	5987.0	6129.7	6299.5	6319.2	6493.9	6604.6
10°	5418.6	5425.9	5428.4	5529.3	5610.5	5782.8	5964.8	6169.1	6191.2	6427.5	6599.7
12.5°	5238.9	5241.4	5251.2	5357.0	5445.6	5625.3	5809.8	6043.6	6073.1	6351.2	6577.6
15°	5152.8	5147.9	5152.8	5241.4	5330.0	5502.2	5691.7	5942.7	5974.7	6287.2	6580.0
17.5°	5147.9	5140.5	5135.6	5202.0	5258.6	5411.2	5603.1	5876.3	5910.7	6257.7	6607.1
20°	5219.2	5214.3	5189.7	5219.2	5231.5	5357.0	5546.5	5824.6	5859.0	6252.8	6666.2
22.5°	5406.3	5394.0	5357.0	5330.0	5263.5	5337.4	5507.1	5787.7	5827.0	6265.1	6742.4
25°	5684.3	5679.4	5632.6	5566.2	5396.4	5366.9	5509.6	5787.7	5824.6	6279.8	6823.6
27.5°	6102.6	6073.1	6014.1	5898.4	5654.8	5482.5	5558.8	5802.4	5839.3	6299.5	6890.1
30°	6528.4	6525.9	6506.2	6388.1	6026.4	5704.0	5662.2	5841.8	5876.3	6316.7	6951.6
32.5°	6968.8	6976.2	7025.4	6934.4	6538.2	6033.7	5849.2	5923.0	5947.6	6351.2	7005.7
35°	7387.2	7401.9	7532.3	7564.3	7160.8	6533.3	6154.3	6085.4	6087.9	6427.5	7077.1
37.5°	7788.3	7837.5	8046.6	8201.7	7935.9	7138.6	6594.8	6361.0	6341.3	6580.0	7185.4
40°	8243.5	8337.0	8600.3	8863.6	8779.9	7938.4	7195.2	6784.3	6742.4	6860.6	7379.8
42.5°	8747.9	8848.8	9198.3	9567.4	9606.7	8905.4	7945.7	7401.9	7330.6	7333.0	7744.0
45°	9289.3	9424.7	9830.7	10362.2	10600.9	9983.2	8871.0	8236.1	8164.8	8058.9	8329.6
47.5°	10000.5	10118.6	10509.8	11122.6	11580.3	11139.8	10084.1	9309.0	9178.6	9023.6	9240.1
50°	10613.2	10716.5	11053.7	11821.4	12773.7	12631.0	11459.7	10650.1	10524.6	10261.3	10440.9
52.5°	10748.5	10829.7	11139.8	12003.5	13686.7	14513.5	13145.3	12271.7	12183.1	11695.9	11764.8
55°	10140.7	10263.8	10541.8	11501.5	13925.4	16354.1	15332.9	14100.1	13915.5	13137.9	13261.0
57.5°	8605.2	8824.2	9085.1	10332.7	13278.2	17333.5	18389.1	16036.7	15869.3	14525.8	14528.2
60°	6306.9	6484.1	6658.8	7800.6	11742.7	17267.0	21162.4	18212.0	17906.8	15660.2	15618.3
62.5°	4586.8	4677.9	4675.4	5081.4	8063.9	16130.2	22619.2	21489.7	20778.5	16873.3	16634.6
65°	3607.5	3605.0	3710.8	3843.7	4503.2	12451.4	22798.8	26275.8	25508.1	18499.9	18002.8
67.5°	2807.7	2861.8	2967.7	3358.9	3383.5	6516.1	21219.0	29236.1	29221.3	20982.8	19604.8
70°	2165.5	2239.3	2389.4	2960.3	3125.1	3646.8	15876.7	28298.6	28537.3	22092.6	18470.4
72.5°	1390.3	1385.4	1606.9	2391.8	3002.1	3039.0	8779.9	22478.9	22749.6	20010.8	14934.3
75°	777.6	782.5	908.0	1464.1	2797.9	2859.4	4348.1	16029.3	16243.4	15601.1	11474.5
77.5°	305.1	315.0	425.7	770.2	1845.6	2554.3	2583.8	10930.6	10962.6	9668.3	7037.7
80°	123.0	130.4	216.5	477.4	1124.6	1720.1	1845.6	6439.8	6309.4	3742.8	2047.3
82.5°	36.9	39.4	86.1	270.7	588.1	1223.0	1245.1	2470.6	2332.8	804.7	521.7
85°	2.5	2.5	19.7	83.7	209.2	307.6	829.3	804.7	713.6	201.8	231.3
87.5°	0.0	0.0	2.5	2.5	4.9	9.8	88.6	147.6	150.1	36.9	103.4
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°	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7
2.5°	6621.9	6533.3	6525.9	6457.0	6388.1	6302.0	6201.1	6127.3	6075.6	5984.5	5967.3
5°	6612.0	6493.9	6383.2	6186.3	5967.3	5731.1	5524.4	5332.4	5211.9	5130.7	5096.2
7.5°	6592.3	6442.2	6186.3	5814.7	5448.1	5034.7	4712.3	4417.0	4215.3	4097.1	4045.5
10°	6577.6	6375.8	5959.9	5396.4	4828.0	4257.1	3767.4	3329.4	3085.8	2893.8	2861.8
12.5°	6548.0	6279.8	5669.6	4906.7	4173.4	3415.5	2790.5	2254.0	1882.5	1715.1	1656.1
15°	6518.5	6178.9	5379.2	4390.0	3459.8	2524.7	1766.8	1250.1	994.1	915.4	910.5
17.5°	6513.6	6087.9	5064.2	3900.3	2711.7	1653.6	1006.4	809.6	755.4	735.8	735.8
20°	6528.4	6011.6	4754.2	3336.8	1976.0	1006.4	750.5	701.3	669.3	652.1	652.1
22.5°	6543.1	5932.9	4456.4	2768.3	1311.6	735.8	661.9	620.1	583.2	563.5	553.7
25°	6553.0	5846.7	4126.7	2197.4	856.3	639.8	580.7	526.6	482.3	457.7	457.7
27.5°	6550.5	5743.4	3794.5	1638.9	664.4	568.4	497.1	440.5	396.2	369.1	371.6
30°	6530.8	5630.2	3450.0	1144.2	580.7	497.1	425.7	366.7	322.4	300.2	297.8
32.5°	6516.1	5509.6	3051.3	804.7	521.7	435.6	361.7	305.1	268.2	251.0	248.5
35°	6498.8	5391.5	2672.4	612.7	470.0	376.5	305.1	258.4	228.8	214.1	214.1
37.5°	6503.7	5268.5	2261.4	526.6	418.3	327.3	260.8	221.5	196.9	182.1	179.6
40°	6580.0	5194.6	1857.9	477.4	371.6	283.0	226.4	191.9	167.3	152.6	150.1
42.5°	6769.5	5197.1	1471.5	440.5	329.7	241.2	196.9	164.9	142.7	125.5	123.0
45°	7148.5	5300.4	1129.5	401.1	285.4	209.2	169.8	140.3	118.1	103.4	100.9
47.5°	7768.6	5608.0	856.3	366.7	248.5	182.1	145.2	118.1	98.4	86.1	83.7
50°	8755.3	6164.2	674.2	324.8	209.2	157.5	123.0	98.4	81.2	68.9	66.4
52.5°	9941.4	6998.4	578.3	287.9	179.6	137.8	105.8	81.2	66.4	56.6	54.1
55°	11304.7	7995.0	534.0	251.0	152.6	118.1	86.1	66.4	54.1	46.8	41.8
57.5°	12554.7	8893.1	531.5	214.1	130.4	100.9	71.4	56.6	46.8	36.9	34.5
60°	13772.8	9643.7	499.5	177.2	113.2	83.7	61.5	46.8	39.4	32.0	29.5
62.5°	14877.7	10253.9	418.3	142.7	96.0	68.9	51.7	41.8	34.5	27.1	27.1
65°	16265.5	11031.5	319.9	115.7	78.7	56.6	44.3	36.9	32.0	24.6	24.6
67.5°	17700.1	11442.5	228.8	96.0	64.0	49.2	39.4	34.5	27.1	22.1	22.1
70°	16031.8	9668.3	164.9	78.7	54.1	41.8	34.5	32.0	27.1	22.1	19.7
72.5°	12520.3	6971.3	123.0	61.5	46.8	39.4	32.0	29.5	24.6	19.7	19.7
75°	9284.4	4065.2	93.5	49.2	36.9	32.0	32.0	29.5	24.6	19.7	17.2
77.5°	5047.0	1417.4	71.4	39.4	29.5	24.6	27.1	27.1	22.1	17.2	14.8
80°	1336.2	388.8	49.2	29.5	24.6	19.7	19.7	24.6	19.7	14.8	14.8
82.5°	388.8	113.2	34.5	24.6	19.7	17.2	17.2	17.2	14.8	12.3	9.8
85°	189.5	41.8	24.6	19.7	17.2	14.8	12.3	12.3	9.8	7.4	7.4
87.5°	83.7	17.2	19.7	17.2	17.2	12.3	9.8	7.4	7.4	4.9	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)