

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: P639784

Luminaire Tested: GWS-SA5C-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20426.7 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

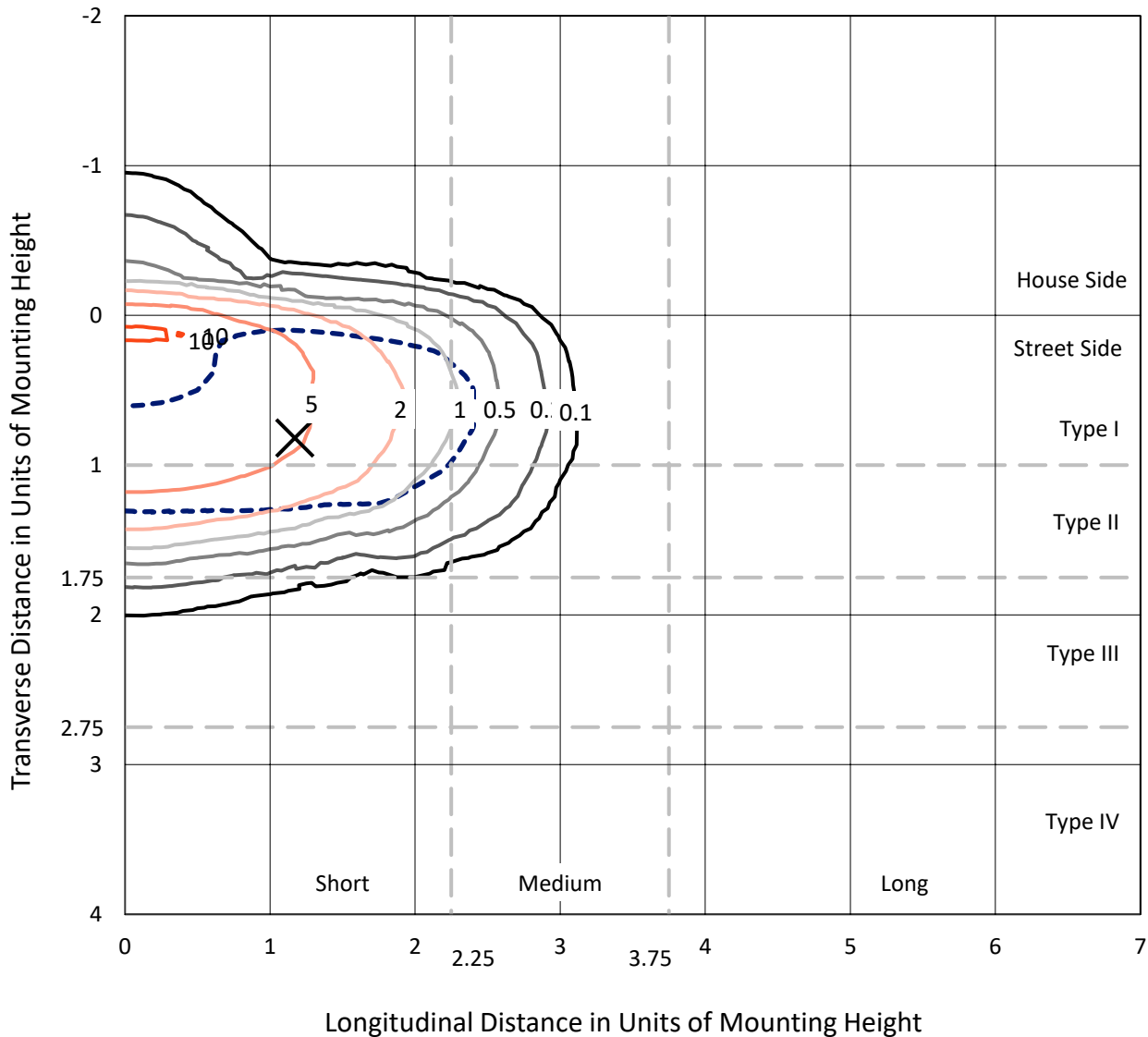
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

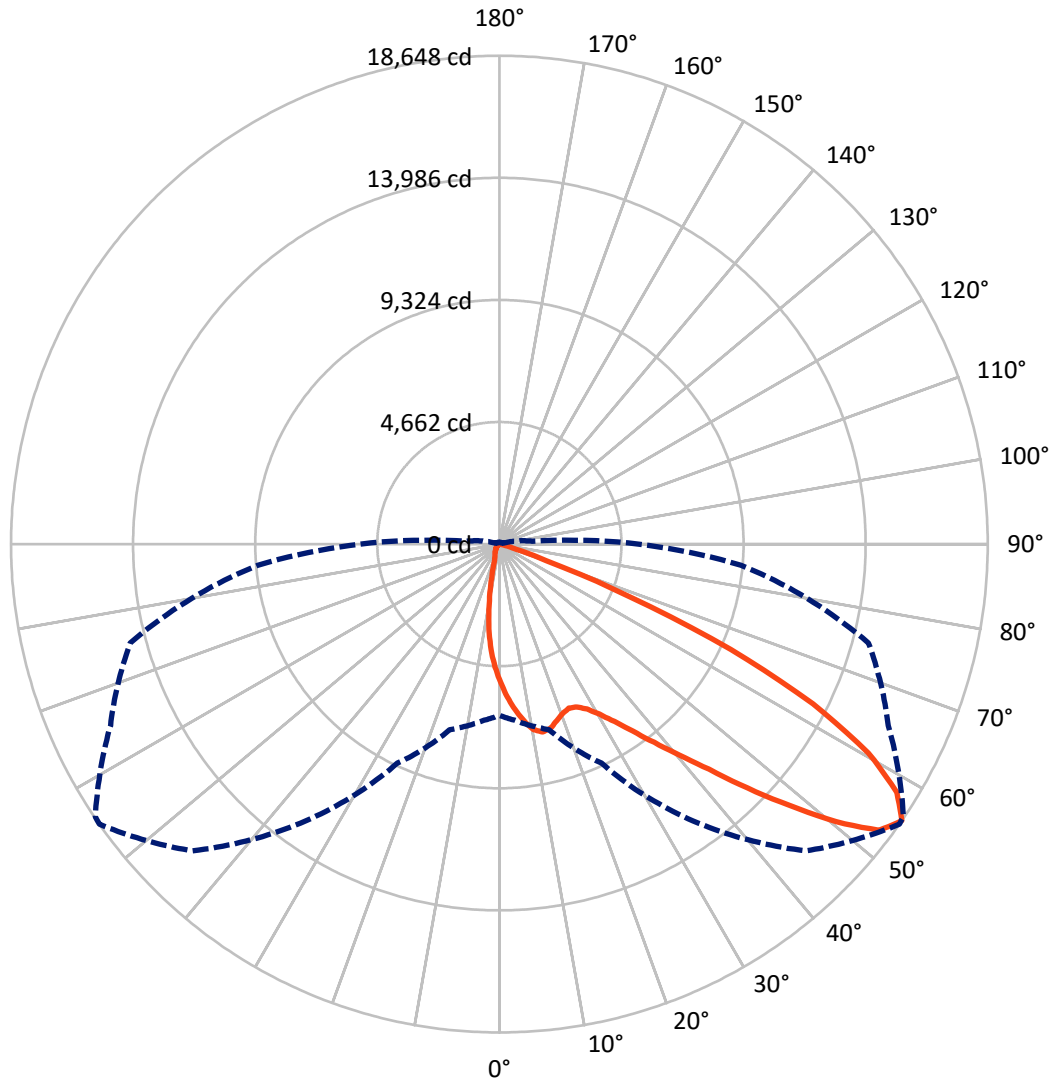
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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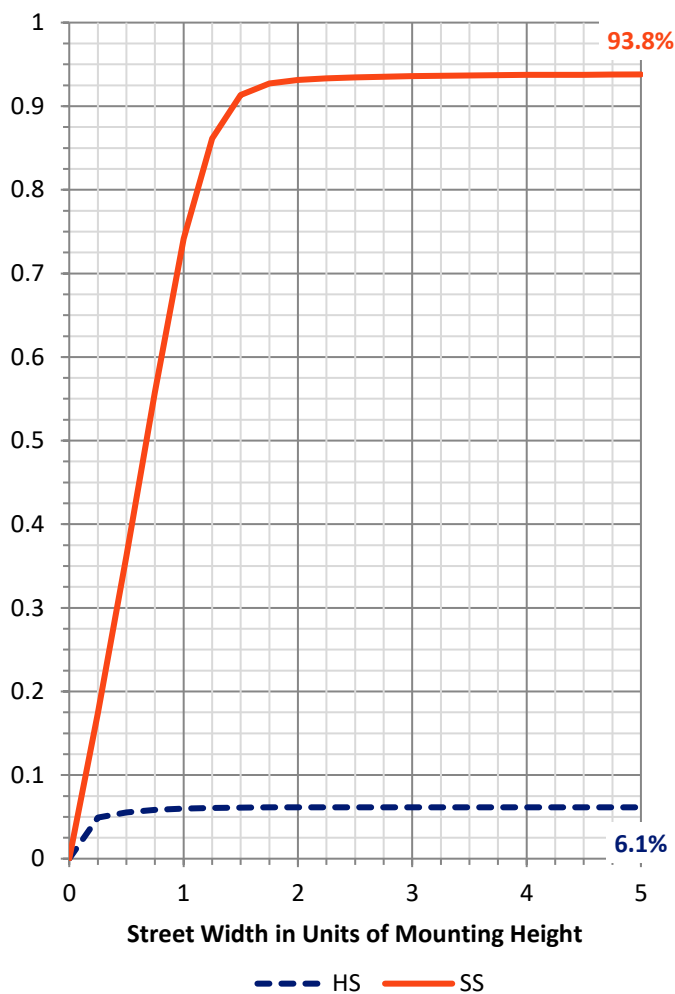
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.4	0.0	1260.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19166.3	0.0	19166.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	20426.7	0.0	20426.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	2.3
10°-20°	1124.4	5.5
20°-30°	1872.5	9.2
30°-40°	3190.8	15.6
40°-50°	5208.5	25.5
50°-60°	5453.1	26.7
60°-70°	2750.4	13.5
70°-80°	347.4	1.7
80°-90°	13.2	0.1
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°	20426.7	100.0
0°-180°	20426.7	100.0

Coefficient of Utilization



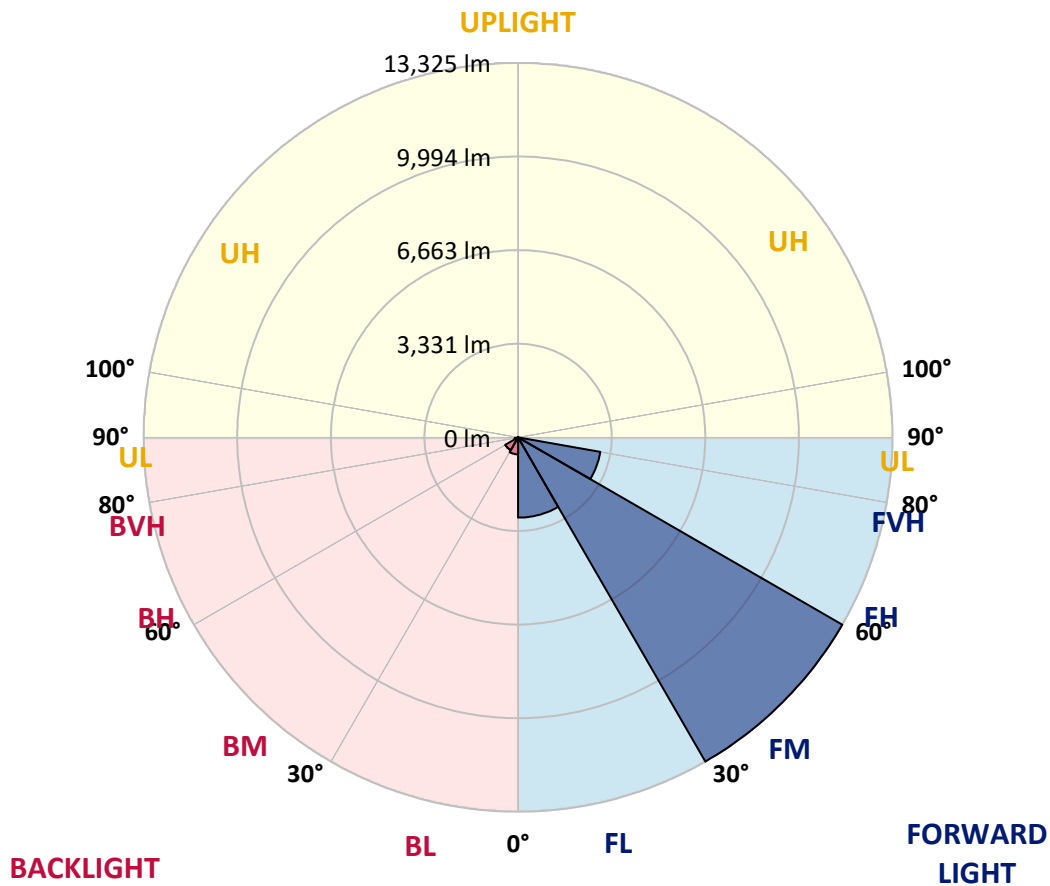
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.4	14.0			
FM (30°-60°)	13325.5	65.2			
FH (60°-80°)	2971.4	14.5			G2/5000
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	605.8	3.0	B2/1000		
BM (30°-60°)	527.0	2.6	B1/1000		
BH (60°-80°)	126.4	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1
2.5°	6151.9	6122.2	6167.6	6115.2	6026.2	5951.1	5853.3	5818.4	5661.2	5512.8	5369.6
5°	6899.3	6908.0	6894.1	6820.7	6695.0	6555.3	6358.0	6314.3	6040.2	5757.3	5451.7
7.5°	7084.4	7079.2	7108.8	7136.8	7115.8	7046.0	6831.2	6787.5	6447.0	6022.7	5577.4
10°	6513.4	6516.9	6578.0	6766.6	7000.6	7243.3	7210.1	7185.7	6852.1	6323.0	5717.1
12.5°	5706.6	5738.1	5802.7	6071.6	6468.0	7019.8	7362.0	7386.5	7224.1	6653.1	5881.3
15°	5357.4	5364.4	5416.8	5579.2	5874.3	6555.3	7297.4	7365.5	7534.9	6984.9	6059.4
17.5°	5348.7	5357.4	5380.1	5451.7	5643.8	6190.3	7089.6	7208.4	7768.9	7341.1	6272.4
20°	5676.9	5671.7	5656.0	5617.6	5701.4	6069.8	6897.6	7028.5	7896.4	7688.6	6487.2
22.5°	6272.4	6265.4	6195.6	6036.7	5968.6	6179.9	6803.3	6922.0	7973.2	7997.7	6663.6
25°	6958.7	7007.6	6876.6	6635.6	6468.0	6461.0	6887.1	6970.9	8039.6	8271.8	6784.0
27.5°	7711.3	7727.0	7615.2	7344.6	7101.9	6911.5	7129.8	7192.7	8112.9	8516.3	6852.1
30°	8537.2	8532.0	8404.5	8090.2	7795.1	7520.9	7538.4	7562.9	8284.0	8795.7	6927.2
32.5°	9569.3	9592.0	9365.0	8937.1	8582.6	8203.7	8072.8	8076.2	8593.1	9155.4	7040.7
35°	10971.5	10915.6	10615.2	10005.8	9401.6	8993.0	8769.5	8750.3	9069.8	9639.1	7238.1
37.5°	12307.3	12312.6	11998.2	11327.7	10564.6	9920.2	9604.2	9551.8	9740.4	10309.7	7566.4
40°	13234.6	13252.0	13121.1	12770.1	11961.6	11050.1	10585.6	10531.4	10610.0	11158.3	7995.9
42.5°	13725.3	13774.1	13810.8	13892.9	13280.0	12461.0	11746.8	11741.6	11659.5	12125.7	8493.6
45°	13744.5	13817.8	14041.3	14601.9	14671.7	14071.0	13293.9	13176.9	12860.9	13161.2	8938.9
47.5°	12984.9	13154.2	13629.2	14739.8	15473.2	15672.3	14902.2	14830.6	13943.5	13980.2	9272.4
50°	11214.2	11390.6	12265.4	14032.6	15675.8	16943.5	16667.6	16519.2	14848.1	14521.5	9433.1
52.5°	9398.1	9558.8	10152.5	12349.2	14835.8	17343.4	18155.4	17979.0	15660.1	14710.1	9366.7
55°	6539.6	6754.4	7334.1	9230.5	12901.0	16564.6	18647.8	18611.2	16384.7	14591.4	9263.7
57.5°	3206.1	3419.1	3997.1	5690.9	9557.0	14462.2	17895.2	18089.0	16817.8	14463.9	9179.9
60°	1339.3	1426.7	1625.7	2497.1	5346.9	10929.6	16196.1	16465.1	16552.4	14291.0	9171.1
62.5°	777.1	791.0	812.0	1035.5	2079.7	6265.4	13435.4	13817.8	15157.1	14062.3	9033.2
65°	586.7	592.0	583.2	635.6	859.1	2376.6	9707.2	10227.6	12651.3	13168.2	8488.4
67.5°	482.0	482.0	459.3	469.7	539.6	890.6	5359.1	6085.6	9361.5	10823.0	7009.3
70°	384.2	392.9	382.4	368.5	385.9	492.4	1906.9	2364.4	5451.7	6391.1	4087.9
72.5°	291.6	291.6	309.1	298.6	286.4	309.1	665.3	747.4	2188.0	2664.7	1475.6
75°	225.3	232.2	244.5	234.0	216.5	183.4	319.6	338.8	660.1	619.9	330.0
77.5°	115.3	117.0	155.4	171.1	160.7	111.8	139.7	153.7	214.8	192.1	122.2
80°	69.8	73.3	87.3	134.5	106.5	59.4	57.6	61.1	101.3	87.3	50.6
82.5°	29.7	31.4	48.9	48.9	43.7	22.7	22.7	22.7	48.9	45.4	21.0
85°	0.0	0.0	8.7	7.0	7.0	8.7	8.7	8.7	12.2	17.5	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2
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°	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1
2.5°	5277.1	5165.3	5015.1	4878.9	4695.6	4592.5	4449.4	4332.4	4232.8	4201.4	4187.4
5°	5278.8	5086.7	4765.4	4444.1	4049.5	3738.6	3419.1	3165.9	2958.1	2891.7	2874.3
7.5°	5313.7	5030.8	4510.5	3927.2	3267.2	2722.3	2235.2	1798.6	1596.0	1527.9	1514.0
10°	5360.9	4983.7	4215.4	3307.3	2359.1	1658.9	1175.2	895.8	763.1	689.8	700.2
12.5°	5422.0	4945.3	3888.8	2636.8	1561.1	911.5	646.1	541.3	513.4	499.4	492.4
15°	5504.1	4899.9	3483.7	1971.5	956.9	586.7	497.7	469.7	459.3	452.3	450.5
17.5°	5587.9	4847.5	3071.6	1386.5	635.6	487.2	447.0	433.1	426.1	420.8	419.1
20°	5676.9	4758.4	2587.9	955.2	501.2	438.3	412.1	396.4	387.7	378.9	377.2
22.5°	5715.4	4615.2	2125.1	668.8	445.3	403.4	370.2	351.0	340.5	333.5	333.5
25°	5678.7	4383.0	1646.7	508.1	405.1	365.0	331.8	310.8	302.1	295.1	295.1
27.5°	5580.9	4084.4	1201.4	420.8	361.5	324.8	293.4	274.2	267.2	263.7	263.7
30°	5472.6	3707.2	846.9	361.5	312.6	282.9	256.7	244.5	242.7	239.2	239.2
32.5°	5380.1	3354.5	583.2	317.8	275.9	246.2	228.8	223.5	225.3	221.8	223.5
35°	5329.4	3008.7	433.1	282.9	246.2	218.3	209.5	209.5	209.5	207.8	207.8
37.5°	5350.4	2668.2	352.7	258.4	220.0	199.1	190.3	193.8	197.3	197.3	197.3
40°	5455.2	2366.1	312.6	235.7	197.3	181.6	174.6	179.9	185.1	188.6	188.6
42.5°	5587.9	2121.7	282.9	216.5	181.6	164.1	160.7	165.9	171.1	174.6	174.6
45°	5671.7	1875.4	253.2	192.1	165.9	144.9	144.9	151.9	150.2	151.9	151.9
47.5°	5710.1	1679.9	223.5	165.9	141.4	125.7	127.5	131.0	127.5	131.0	131.0
50°	5615.8	1482.5	197.3	138.0	117.0	110.0	113.5	111.8	111.8	118.7	118.7
52.5°	5443.0	1335.9	174.6	117.0	99.5	97.8	101.3	94.3	96.0	96.0	94.3
55°	5315.5	1252.0	155.4	101.3	85.6	87.3	85.6	73.3	66.4	59.4	57.6
57.5°	5252.6	1218.9	141.4	90.8	76.8	76.8	69.8	50.6	38.4	29.7	26.2
60°	5238.6	1178.7	127.5	78.6	68.1	64.6	50.6	29.7	19.2	14.0	12.2
62.5°	5105.9	1080.9	115.3	62.9	59.4	52.4	31.4	17.5	10.5	7.0	5.2
65°	4671.1	888.8	103.0	48.9	45.4	38.4	19.2	10.5	5.2	1.7	0.0
67.5°	3715.9	630.4	90.8	36.7	31.4	24.4	12.2	7.0	1.7	0.0	0.0
70°	2142.6	340.5	75.1	26.2	21.0	15.7	8.7	3.5	0.0	0.0	0.0
72.5°	715.9	158.9	57.6	17.5	15.7	12.2	5.2	1.7	0.0	0.0	0.0
75°	157.2	94.3	38.4	12.2	10.5	8.7	3.5	0.0	0.0	0.0	0.0
77.5°	59.4	66.4	19.2	8.7	7.0	5.2	1.7	0.0	0.0	0.0	0.0
80°	22.7	43.7	8.7	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	17.5	5.2	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	8.7	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.7	1.7	0.0	0.0	0.0	0.0	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)