

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: P640360

Luminaire Tested: GWS-SA5D-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22702.6 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

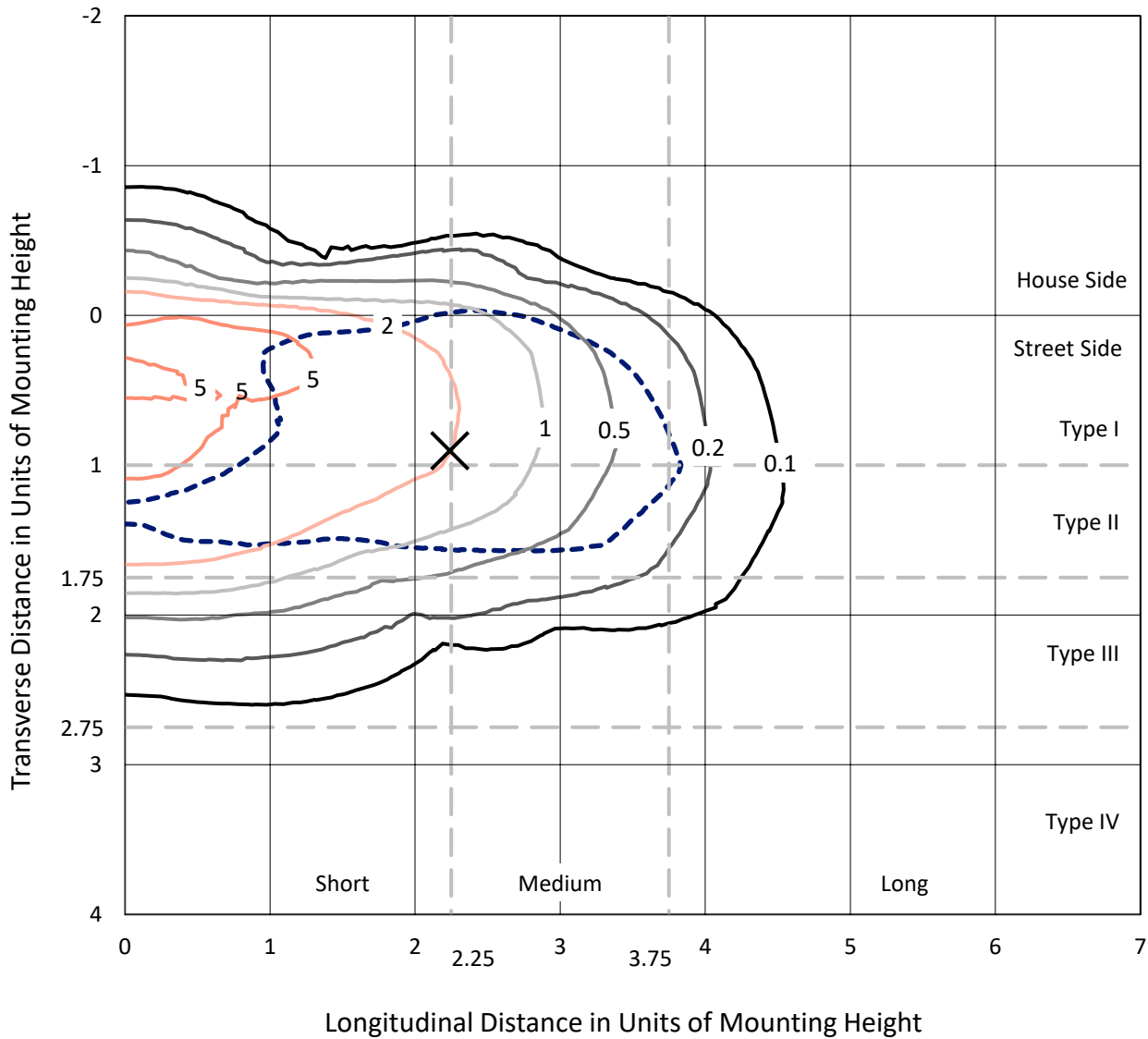
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

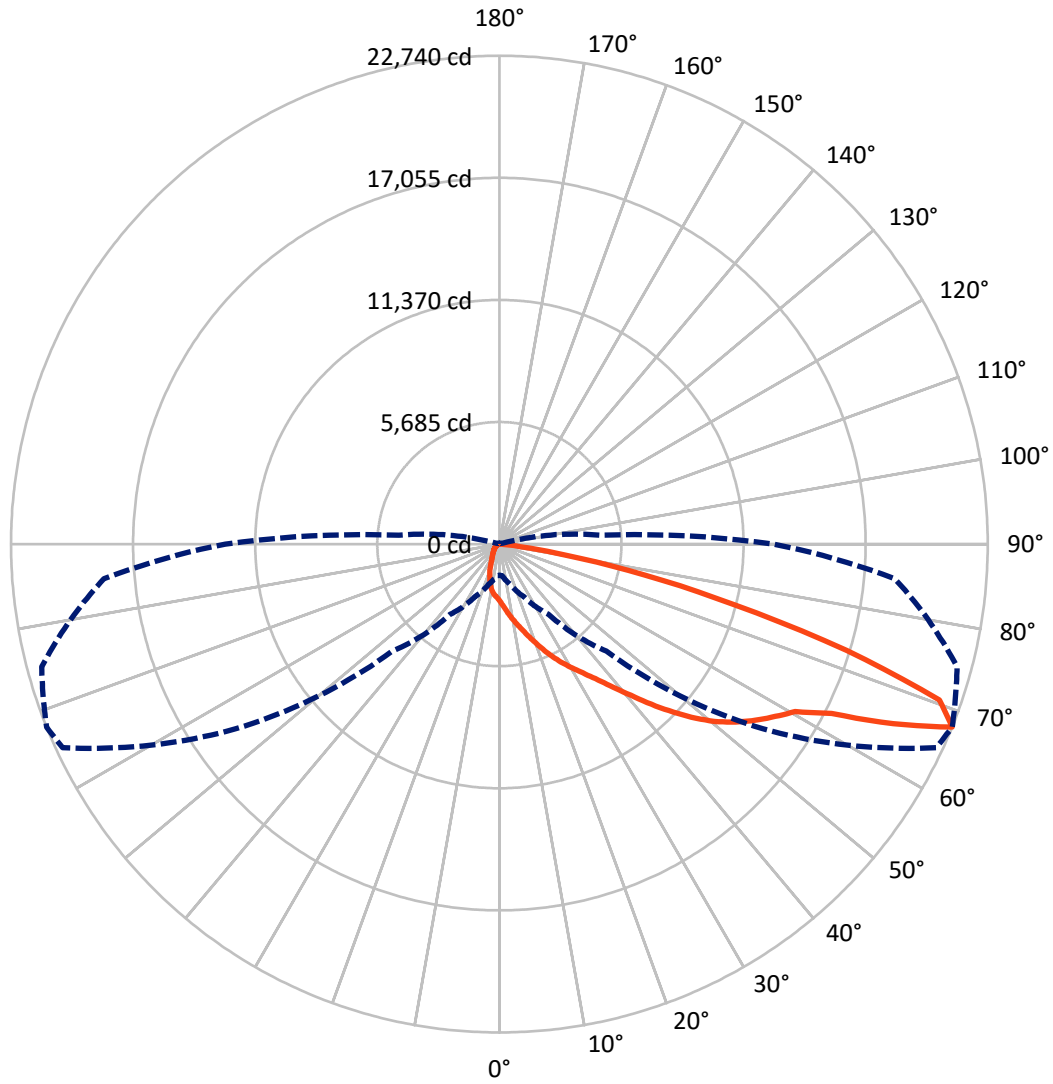
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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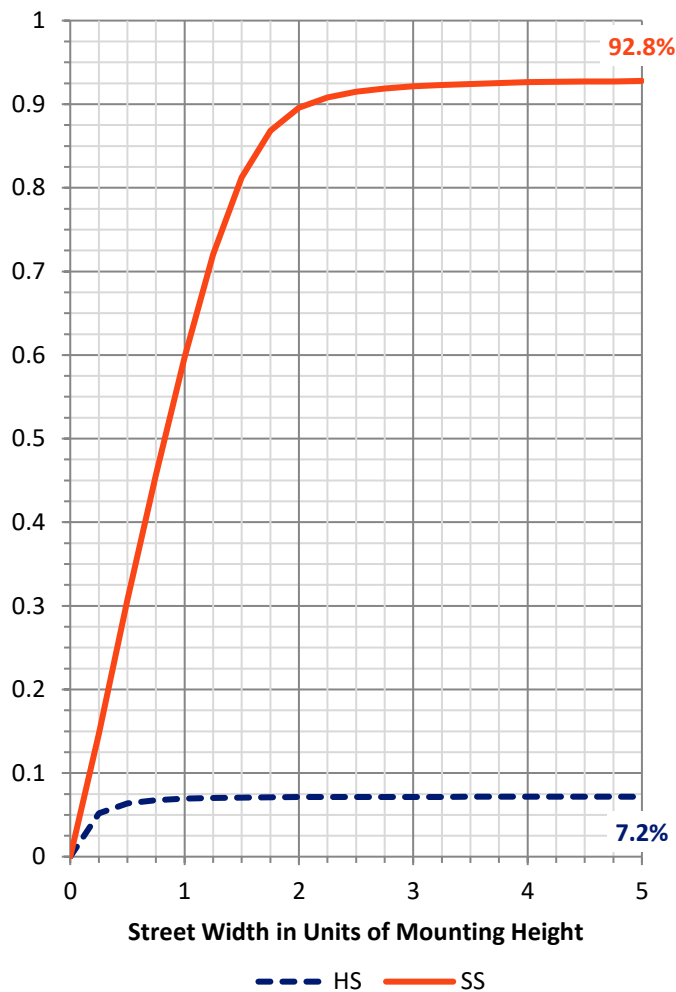
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1639.4	0.0	1639.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21063.2	0.0	21063.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	22702.6	0.0	22702.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.7	1.1
10°-20°	740.0	3.3
20°-30°	1271.6	5.6
30°-40°	2210.9	9.7
40°-50°	3857.8	17.0
50°-60°	5818.5	25.6
60°-70°	5834.5	25.7
70°-80°	2574.2	11.3
80°-90°	137.5	0.6
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°	22702.6	100.0
0°-180°	22702.6	100.0

Coefficient of Utilization

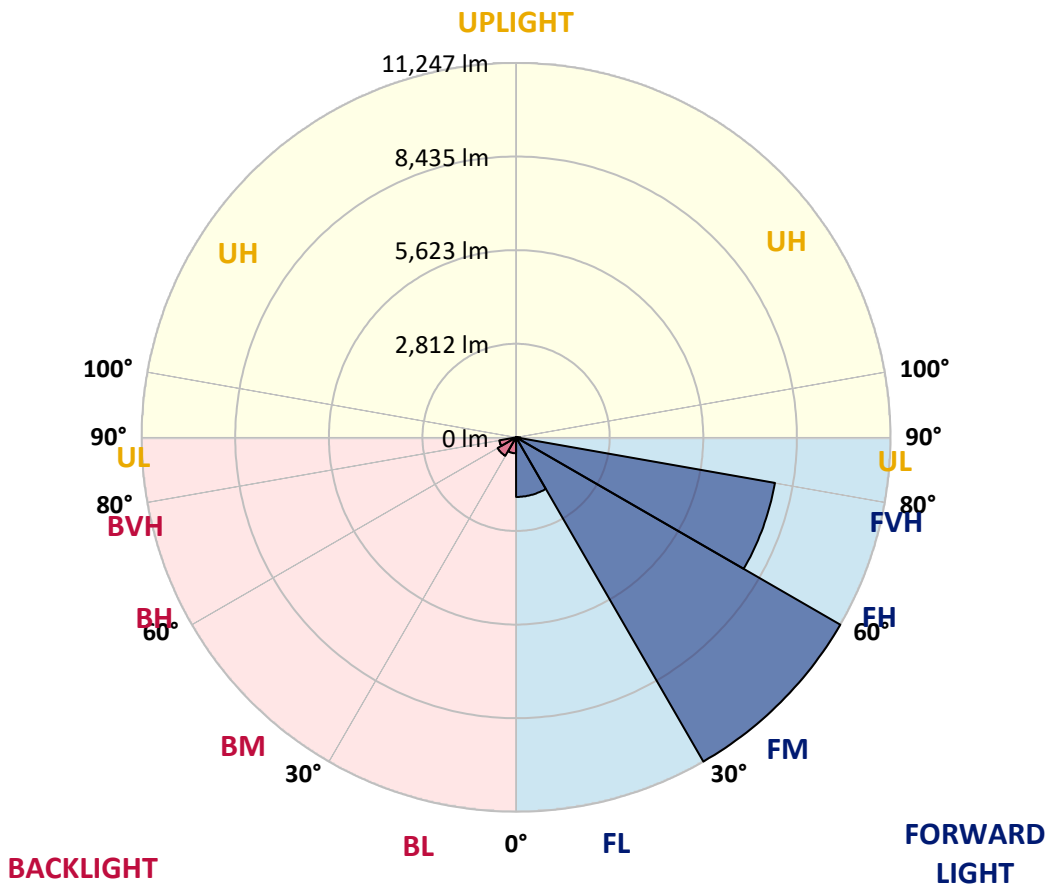


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.6	7.9			
FM (30°-60°)	11246.8	49.5			
FH (60°-80°)	7897.0	34.8			G4/12000
FVH (80°-90°)	129.7	0.6			G2/225
BL (0°-30°)	479.6	2.1	B1/500		
BM (30°-60°)	640.4	2.8	B1/1000		
BH (60°-80°)	511.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0
2.5°	3076.5	3096.1	3076.5	3080.9	3024.4	2998.3	2941.8	2863.6	2844.1	2794.1	2718.0
5°	3452.4	3469.8	3450.3	3445.9	3380.7	3332.9	3239.5	3104.8	3065.7	2967.9	2818.0
7.5°	3656.7	3667.5	3674.0	3684.9	3661.0	3621.9	3537.2	3369.9	3328.6	3170.0	2959.2
10°	3678.4	3687.1	3719.7	3784.8	3832.6	3856.5	3808.7	3654.5	3589.3	3435.0	3133.0
12.5°	3617.5	3630.6	3682.7	3791.4	3923.9	4045.6	4076.0	3941.3	3882.6	3684.9	3337.3
15°	3537.2	3548.0	3619.7	3767.5	3967.4	4191.1	4317.2	4258.5	4193.3	3986.9	3563.2
17.5°	3413.3	3428.5	3528.5	3728.4	3986.9	4306.3	4577.9	4597.4	4551.8	4328.0	3813.1
20°	3343.8	3354.7	3443.7	3650.1	3973.9	4391.0	4821.2	5005.9	4955.9	4721.3	4099.9
22.5°	3402.5	3411.1	3469.8	3630.6	3930.4	4438.8	5047.2	5414.4	5386.1	5142.8	4401.9
25°	3711.0	3739.2	3704.5	3732.7	3950.0	4464.9	5229.7	5822.8	5829.4	5583.8	4714.8
27.5°	4336.7	4299.8	4217.2	4076.0	4102.1	4534.4	5386.1	6207.4	6263.9	6014.0	4992.9
30°	4973.3	4951.6	4901.6	4682.2	4499.7	4688.7	5518.7	6600.7	6689.7	6437.7	5240.6
32.5°	5688.1	5709.9	5620.8	5357.9	5047.2	5001.6	5655.5	6974.4	7141.7	6917.9	5531.7
35°	6542.0	6548.5	6372.5	6081.4	5729.4	5518.7	5901.1	7387.2	7695.7	7530.6	5920.6
37.5°	7374.1	7413.3	7317.7	6859.2	6546.4	6161.8	6307.4	7917.3	8351.9	8286.7	6409.5
40°	8110.7	8171.5	8141.1	7697.9	7287.2	6963.5	6937.4	8538.7	9144.9	9218.8	7054.8
42.5°	8697.3	8736.4	8760.3	8445.3	8082.5	7899.9	7715.3	9260.1	10081.3	10383.3	7845.6
45°	9316.5	9329.6	9379.6	9166.6	8849.4	8864.6	8634.3	10135.7	11067.7	11673.9	8753.8
47.5°	10105.2	10148.7	10124.8	9901.0	9614.2	9785.8	9583.8	11037.3	12041.1	13051.4	9683.7
50°	11065.6	11111.2	11089.5	10828.7	10509.4	10581.1	10455.0	11912.9	12979.7	14350.7	10457.2
52.5°	11560.9	11597.9	11867.3	11984.6	11817.3	11361.1	11198.1	12875.4	13772.8	15419.7	11167.7
55°	11321.9	11348.0	11934.7	12430.0	13042.7	12586.5	11945.5	13618.5	14472.4	16254.0	11695.7
57.5°	10331.2	10472.4	11269.8	12108.5	13396.9	13796.7	13157.9	14426.7	15145.9	16834.1	12214.9
60°	8299.7	8293.2	9436.0	10941.7	12706.0	14129.1	14870.0	15519.6	15821.6	17279.5	12910.2
62.5°	4586.6	4627.9	6148.7	8132.4	10785.3	13268.7	16154.0	17407.7	17362.1	18057.3	13998.7
65°	2283.5	2366.1	3191.7	4658.3	7176.4	10965.6	16375.7	20288.7	20158.3	19888.9	16247.5
67.5°	1449.2	1481.8	1938.0	2707.2	3989.1	7048.2	14996.0	22437.5	22739.5	22061.6	18478.8
70°	938.6	992.9	1347.1	1851.1	2407.4	3632.8	10985.2	21044.8	21737.9	21822.6	17088.3
72.5°	510.6	549.7	860.4	1321.0	1738.2	1816.4	6170.5	15793.4	16908.0	18511.4	13368.6
75°	291.1	319.4	471.5	897.3	1275.4	1105.9	2735.4	10572.4	11282.8	13229.6	9579.4
77.5°	176.0	199.9	265.1	436.7	799.6	738.7	1034.2	6435.5	6887.5	7893.4	5027.6
80°	80.4	95.6	167.3	241.2	436.7	349.8	395.4	3000.5	3098.3	3239.5	1664.3
82.5°	36.9	43.5	76.0	143.4	247.7	202.1	152.1	693.1	975.5	923.4	423.7
85°	4.3	4.3	28.2	58.7	69.5	52.1	63.0	156.4	197.7	278.1	121.7
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	13.0	19.6	28.2	45.6	30.4
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°	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0
2.5°	2683.3	2622.5	2568.1	2487.7	2433.4	2372.6	2331.3	2281.3	2261.8	2246.6	2224.8
5°	2744.1	2646.4	2513.8	2366.1	2244.4	2129.2	2022.8	1953.3	1892.4	1883.7	1853.3
7.5°	2844.1	2698.5	2474.7	2233.5	2027.1	1835.9	1686.0	1564.3	1503.5	1484.0	1449.2
10°	2976.6	2776.7	2416.0	2046.7	1749.0	1520.9	1351.4	1214.5	1118.9	1084.2	1058.1
12.5°	3124.3	2848.4	2322.6	1816.4	1477.4	1216.7	1001.6	856.0	795.2	773.5	753.9
15°	3293.8	2915.8	2174.9	1586.1	1212.4	895.2	743.1	680.1	654.0	647.5	640.9
17.5°	3456.8	2959.2	1998.9	1347.1	932.1	695.3	623.6	599.7	593.1	586.6	582.3
20°	3641.4	2989.6	1792.5	1121.1	723.5	588.8	554.0	536.7	523.6	510.6	508.4
22.5°	3830.5	2989.6	1568.7	899.5	606.2	528.0	488.9	456.3	432.4	419.3	415.0
25°	4010.8	2948.4	1347.1	719.2	534.5	469.3	419.3	382.4	349.8	334.6	330.3
27.5°	4139.0	2841.9	1153.7	608.4	484.5	417.2	356.3	315.0	289.0	273.8	271.6
30°	4219.4	2683.3	975.5	543.2	441.1	362.8	302.0	267.2	247.7	236.8	232.5
32.5°	4280.2	2487.7	816.9	497.5	399.8	315.0	262.9	234.7	217.3	208.6	206.4
35°	4401.9	2303.1	699.6	456.3	356.3	275.9	230.3	208.6	195.5	184.7	182.5
37.5°	4571.4	2148.8	606.2	419.3	315.0	245.5	208.6	189.0	178.2	167.3	165.1
40°	4821.2	2051.0	536.7	382.4	278.1	221.6	191.2	173.8	158.6	147.7	145.6
42.5°	5205.8	2005.4	491.0	345.5	245.5	199.9	176.0	154.3	139.1	128.2	126.0
45°	5664.2	2029.3	451.9	308.5	223.8	184.7	156.4	134.7	119.5	108.6	106.5
47.5°	6155.3	2114.0	419.3	273.8	202.1	169.5	139.1	115.2	102.1	91.3	89.1
50°	6668.0	2253.1	391.1	241.2	184.7	152.1	119.5	99.9	86.9	78.2	76.0
52.5°	7113.4	2442.1	362.8	217.3	169.5	134.7	104.3	86.9	73.9	65.2	63.0
55°	7539.3	2620.3	341.1	195.5	152.1	117.3	91.3	73.9	63.0	54.3	52.1
57.5°	8002.1	2809.3	315.0	176.0	136.9	104.3	80.4	63.0	54.3	45.6	43.5
60°	8675.6	3089.6	275.9	160.8	119.5	91.3	69.5	56.5	47.8	36.9	34.8
62.5°	9646.8	3600.2	232.5	139.1	102.1	78.2	58.7	47.8	39.1	30.4	26.1
65°	11463.2	4469.2	191.2	115.2	82.6	65.2	50.0	39.1	30.4	21.7	19.6
67.5°	12771.1	4695.2	154.3	93.4	67.4	50.0	41.3	30.4	21.7	15.2	13.0
70°	11165.5	3372.0	119.5	76.0	56.5	39.1	32.6	23.9	15.2	10.9	8.7
72.5°	8412.7	2203.1	89.1	58.7	43.5	32.6	23.9	19.6	13.0	8.7	6.5
75°	5929.3	1273.2	65.2	43.5	30.4	23.9	19.6	15.2	10.9	6.5	6.5
77.5°	3039.6	525.8	45.6	30.4	21.7	15.2	13.0	8.7	8.7	6.5	4.3
80°	923.4	173.8	26.1	19.6	15.2	10.9	6.5	6.5	6.5	4.3	2.2
82.5°	210.8	56.5	15.2	15.2	10.9	8.7	6.5	2.2	2.2	0.0	0.0
85°	54.3	17.4	13.0	10.9	10.9	8.7	4.3	2.2	0.0	0.0	0.0
87.5°	19.6	10.9	10.9	10.9	8.7	6.5	4.3	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)