

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: P638380

Luminaire Tested: GWS-SA4E-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638380
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-SA4E-760-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23127.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

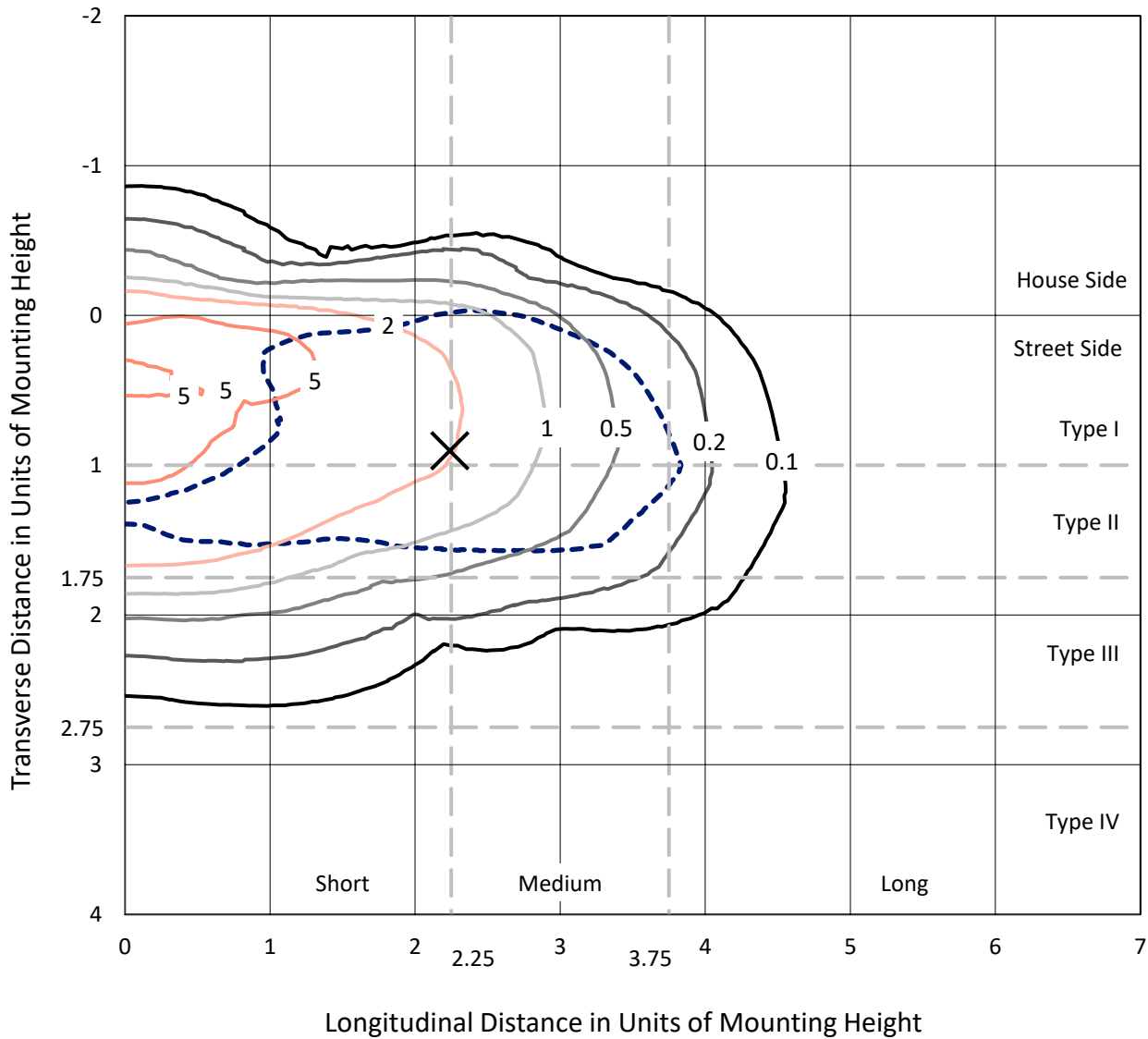
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

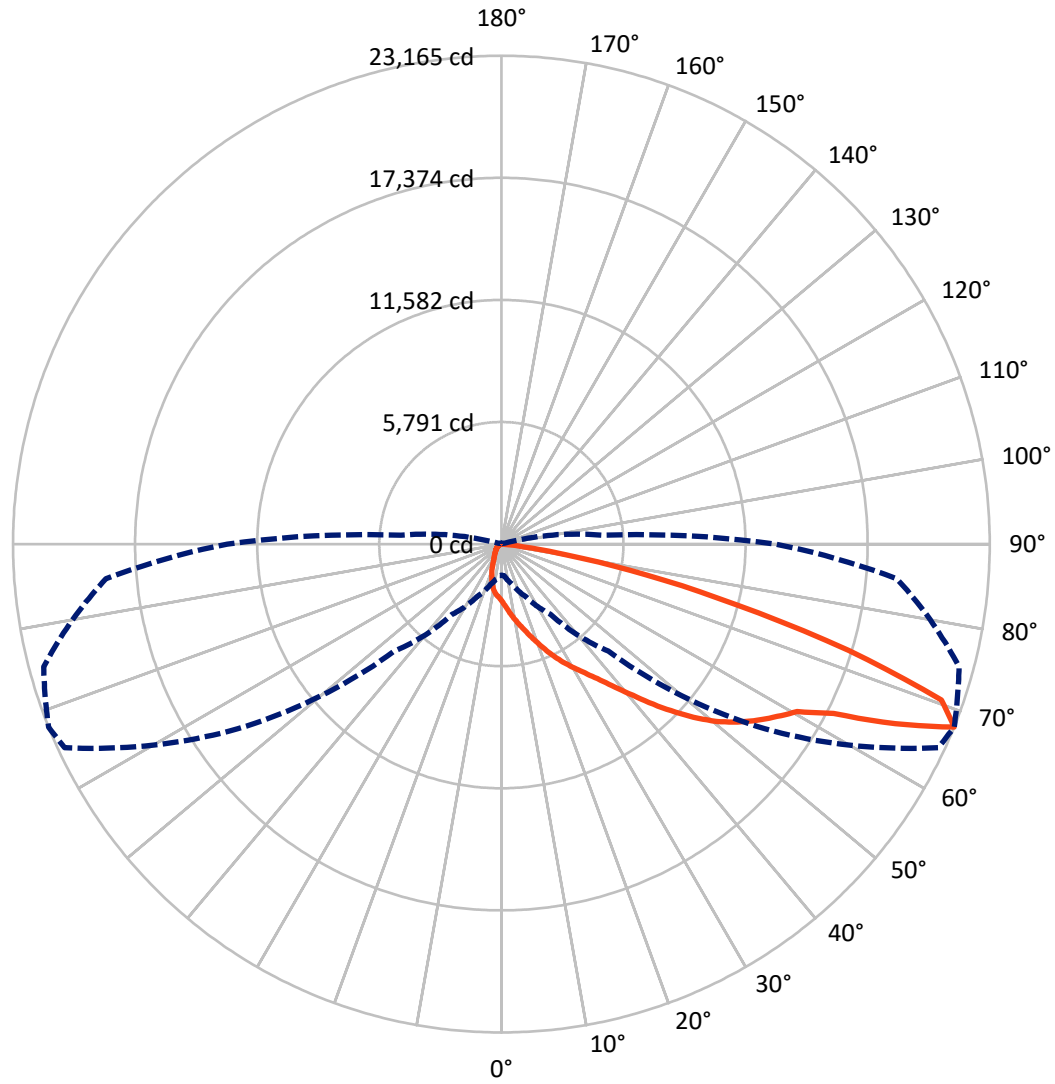
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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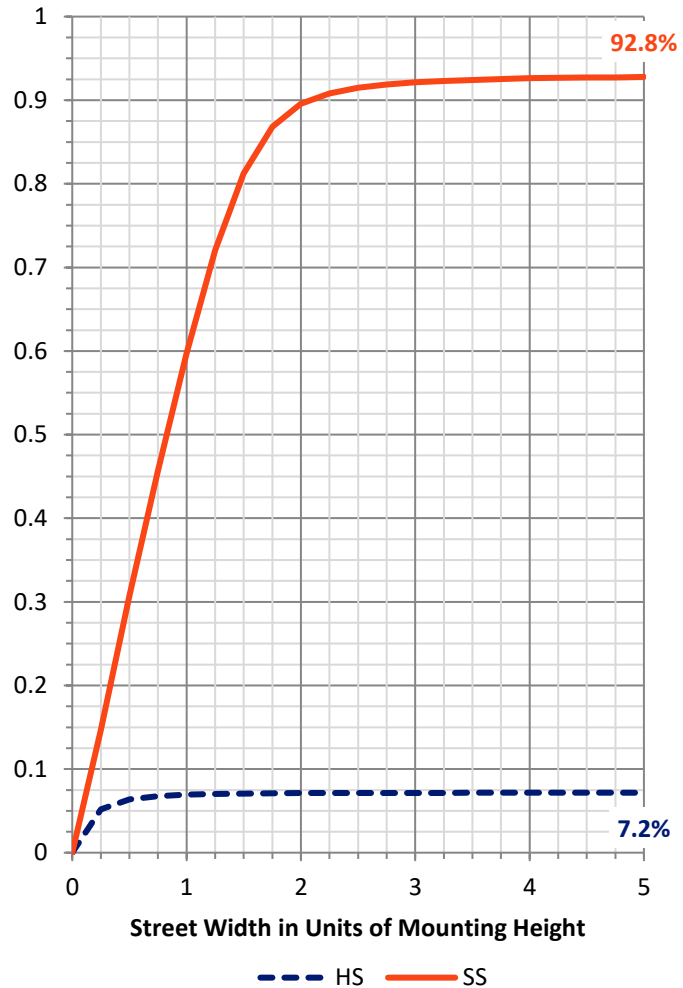
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.0	0.0	1670.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21457.1	0.0	21457.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	23127.1	0.0	23127.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.1
10°-20°	753.8	3.3
20°-30°	1295.4	5.6
30°-40°	2252.2	9.7
40°-50°	3929.9	17.0
50°-60°	5927.3	25.6
60°-70°	5943.6	25.7
70°-80°	2622.3	11.3
80°-90°	140.1	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°	23127.1	100.0
0°-180°	23127.1	100.0

Coefficient of Utilization



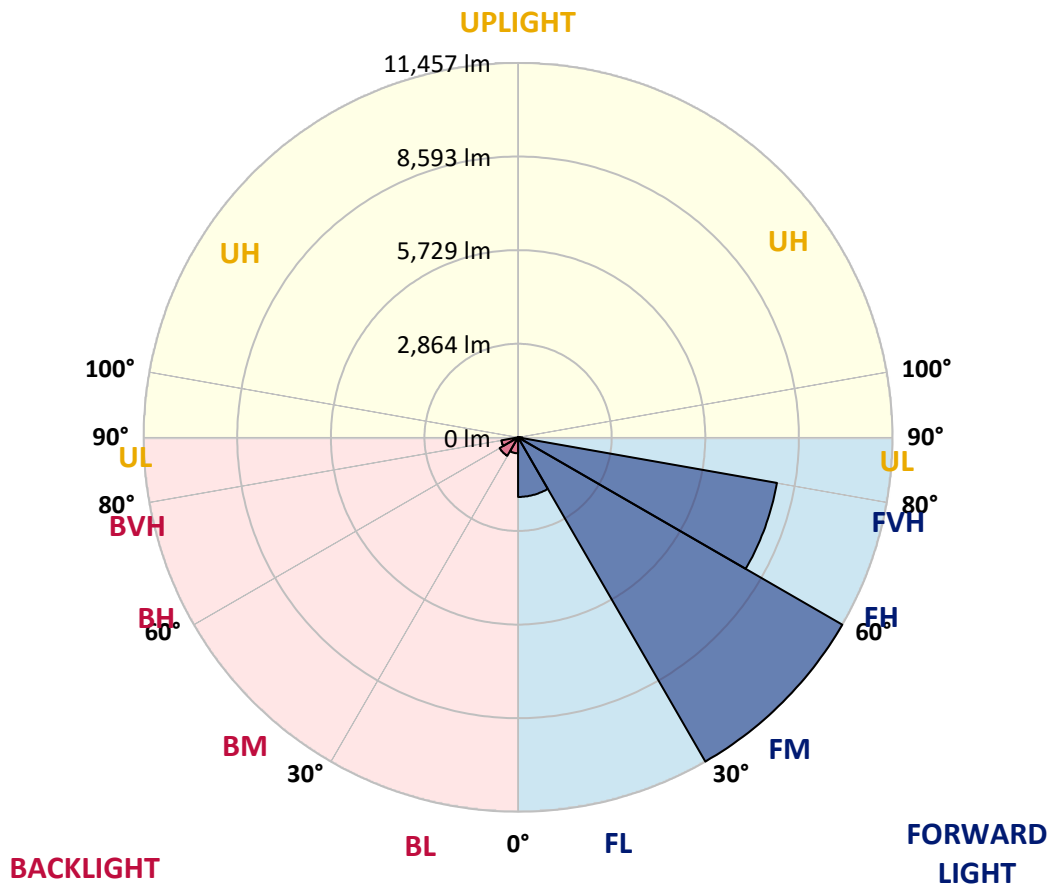
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.1	7.9			
FM (30°-60°)	11457.1	49.5			
FH (60°-80°)	8044.7	34.8			G4/12000
FVH (80°-90°)	132.2	0.6			G2/225
BL (0°-30°)	488.6	2.1	B1/500		
BM (30°-60°)	652.4	2.8	B1/1000		
BH (60°-80°)	521.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	3134.1	3154.0	3134.1	3138.5	3081.0	3054.4	2996.8	2917.2	2897.2	2846.3	2768.9
5°	3517.0	3534.7	3514.8	3510.3	3443.9	3395.2	3300.1	3162.8	3123.0	3023.4	2870.7
7.5°	3725.0	3736.1	3742.7	3753.8	3729.5	3689.6	3603.3	3432.9	3390.8	3229.2	3014.6
10°	3747.2	3756.0	3789.2	3855.6	3904.3	3928.7	3880.0	3722.8	3656.4	3499.3	3191.6
12.5°	3685.2	3698.5	3751.6	3862.3	3997.3	4121.2	4152.2	4015.0	3955.2	3753.8	3399.7
15°	3603.3	3614.4	3687.4	3837.9	4041.5	4269.5	4397.9	4338.1	4271.7	4061.5	3629.9
17.5°	3477.1	3492.6	3594.4	3798.1	4061.5	4386.8	4663.5	4683.4	4636.9	4408.9	3884.4
20°	3406.3	3417.4	3508.1	3718.4	4048.2	4473.1	4911.4	5099.5	5048.6	4809.6	4176.5
22.5°	3466.1	3474.9	3534.7	3698.5	4003.9	4521.8	5141.6	5515.6	5486.8	5238.9	4484.2
25°	3780.4	3809.1	3773.7	3802.5	4023.8	4548.4	5327.5	5931.7	5938.4	5688.3	4802.9
27.5°	4417.8	4380.2	4296.1	4152.2	4178.8	4619.2	5486.8	6323.5	6381.0	6126.5	5086.2
30°	5066.3	5044.2	4993.3	4769.7	4583.8	4776.4	5621.9	6724.1	6814.8	6558.1	5338.5
32.5°	5794.5	5816.6	5725.9	5458.1	5141.6	5095.1	5761.3	7104.8	7275.2	7047.2	5635.1
35°	6664.3	6671.0	6491.7	6195.1	5836.5	5621.9	6011.4	7525.3	7839.6	7671.4	6031.3
37.5°	7512.0	7551.9	7454.5	6987.5	6668.8	6277.0	6425.3	8065.4	8508.0	8441.6	6529.3
40°	8262.4	8324.3	8293.3	7841.8	7423.5	7093.7	7067.2	8698.4	9315.9	9391.1	7186.7
42.5°	8860.0	8899.8	8924.1	8603.2	8233.6	8047.7	7859.5	9433.2	10269.8	10577.5	7992.3
45°	9490.7	9504.0	9554.9	9338.0	9014.9	9030.4	8795.8	10325.2	11274.7	11892.2	8917.5
47.5°	10294.2	10338.5	10314.1	10086.1	9794.0	9968.8	9763.0	11243.7	12266.3	13295.5	9864.8
50°	11272.5	11319.0	11296.8	11031.2	10705.9	10778.9	10650.5	12135.7	13222.4	14619.0	10652.7
52.5°	11777.1	11814.7	12089.2	12208.7	12038.3	11573.5	11407.5	13116.2	14030.3	15708.0	11376.5
55°	11533.7	11560.2	12157.8	12662.4	13286.6	12821.8	12168.9	13873.1	14743.0	16557.9	11914.3
57.5°	10524.4	10668.2	11480.5	12334.9	13647.4	14054.6	13403.9	14696.5	15429.1	17148.9	12443.3
60°	8454.9	8448.3	9612.5	11146.3	12943.5	14393.3	15148.0	15809.8	16117.5	17602.6	13151.6
62.5°	4672.3	4714.4	6263.7	8284.5	10987.0	13516.8	16456.1	17733.2	17686.7	18395.0	14260.5
65°	2326.2	2410.3	3251.4	4745.4	7310.6	11170.7	16681.9	20668.1	20535.3	20260.8	16551.3
67.5°	1476.3	1509.5	1974.3	2757.8	4063.7	7180.0	15276.4	22857.0	23164.7	22474.1	18824.4
70°	956.2	1011.5	1372.3	1885.8	2452.4	3700.7	11190.6	21438.3	22144.3	22230.7	17407.8
72.5°	520.1	560.0	876.5	1345.7	1770.7	1850.3	6285.9	16088.7	17224.1	18857.6	13618.6
75°	296.6	325.4	480.3	914.1	1299.2	1126.6	2786.6	10770.1	11493.8	13477.0	9758.6
77.5°	179.3	203.6	270.0	444.9	814.5	752.5	1053.5	6555.9	7016.2	8041.0	5121.6
80°	81.9	97.4	170.4	245.7	444.9	356.3	402.8	3056.6	3156.2	3300.1	1695.4
82.5°	37.6	44.3	77.5	146.1	252.3	205.8	154.9	706.1	993.8	940.7	431.6
85°	4.4	4.4	28.8	59.8	70.8	53.1	64.2	159.4	201.4	283.3	123.9
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	13.3	19.9	28.8	46.5	31.0
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°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2733.5	2671.5	2616.2	2534.3	2478.9	2417.0	2374.9	2324.0	2304.1	2288.6	2266.4
5°	2795.4	2695.8	2560.8	2410.3	2286.4	2169.1	2060.6	1989.8	1927.8	1919.0	1888.0
7.5°	2897.2	2749.0	2521.0	2275.3	2065.0	1870.3	1717.5	1593.6	1531.6	1511.7	1476.3
10°	3032.3	2828.6	2461.2	2085.0	1781.7	1549.3	1376.7	1237.3	1139.9	1104.5	1077.9
12.5°	3182.8	2901.7	2366.0	1850.3	1505.1	1239.5	1020.3	872.1	810.1	787.9	768.0
15°	3355.4	2970.3	2215.5	1615.7	1235.0	911.9	757.0	692.8	666.2	659.6	652.9
17.5°	3521.4	3014.6	2036.3	1372.3	949.5	708.3	635.2	610.9	604.2	597.6	593.2
20°	3709.5	3045.5	1826.0	1142.1	737.0	599.8	564.4	546.7	533.4	520.1	517.9
22.5°	3902.1	3045.5	1598.0	916.3	617.5	537.8	498.0	464.8	440.5	427.2	422.7
25°	4085.8	3003.5	1372.3	732.6	544.5	478.1	427.2	389.5	356.3	340.9	336.4
27.5°	4216.4	2895.0	1175.3	619.7	493.6	425.0	363.0	320.9	294.4	278.9	276.7
30°	4298.3	2733.5	993.8	553.3	449.3	369.6	307.7	272.2	252.3	241.3	236.8
32.5°	4360.3	2534.3	832.2	506.9	407.3	320.9	267.8	239.0	221.3	212.5	210.3
35°	4484.2	2346.1	712.7	464.8	363.0	281.1	234.6	212.5	199.2	188.1	185.9
37.5°	4656.8	2189.0	617.5	427.2	320.9	250.1	212.5	192.6	181.5	170.4	168.2
40°	4911.4	2089.4	546.7	389.5	283.3	225.8	194.8	177.1	161.6	150.5	148.3
42.5°	5303.1	2042.9	500.2	351.9	250.1	203.6	179.3	157.1	141.7	130.6	128.4
45°	5770.1	2067.2	460.4	314.3	228.0	188.1	159.4	137.2	121.7	110.7	108.5
47.5°	6270.4	2153.6	427.2	278.9	205.8	172.6	141.7	117.3	104.0	93.0	90.7
50°	6792.7	2295.2	398.4	245.7	188.1	154.9	121.7	101.8	88.5	79.7	77.5
52.5°	7246.4	2487.8	369.6	221.3	172.6	137.2	106.2	88.5	75.3	66.4	64.2
55°	7680.2	2669.3	347.5	199.2	154.9	119.5	93.0	75.3	64.2	55.3	53.1
57.5°	8151.7	2861.8	320.9	179.3	139.4	106.2	81.9	64.2	55.3	46.5	44.3
60°	8837.8	3147.4	281.1	163.8	121.7	93.0	70.8	57.5	48.7	37.6	35.4
62.5°	9827.2	3667.5	236.8	141.7	104.0	79.7	59.8	48.7	39.8	31.0	26.6
65°	11677.5	4552.8	194.8	117.3	84.1	66.4	50.9	39.8	31.0	22.1	19.9
67.5°	13009.9	4783.0	157.1	95.2	68.6	50.9	42.1	31.0	22.1	15.5	13.3
70°	11374.3	3435.1	121.7	77.5	57.5	39.8	33.2	24.3	15.5	11.1	8.9
72.5°	8570.0	2244.3	90.7	59.8	44.3	33.2	24.3	19.9	13.3	8.9	6.6
75°	6040.2	1297.0	66.4	44.3	31.0	24.3	19.9	15.5	11.1	6.6	6.6
77.5°	3096.4	535.6	46.5	31.0	22.1	15.5	13.3	8.9	8.9	6.6	4.4
80°	940.7	177.1	26.6	19.9	15.5	11.1	6.6	6.6	6.6	4.4	2.2
82.5°	214.7	57.5	15.5	15.5	11.1	8.9	6.6	2.2	2.2	0.0	0.0
85°	55.3	17.7	13.3	11.1	11.1	8.9	4.4	2.2	0.0	0.0	0.0
87.5°	19.9	11.1	11.1	11.1	8.9	6.6	4.4	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)