

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: P641654

Luminaire Tested: GWS-SA6B-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641654
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-SA6B-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17511.9 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

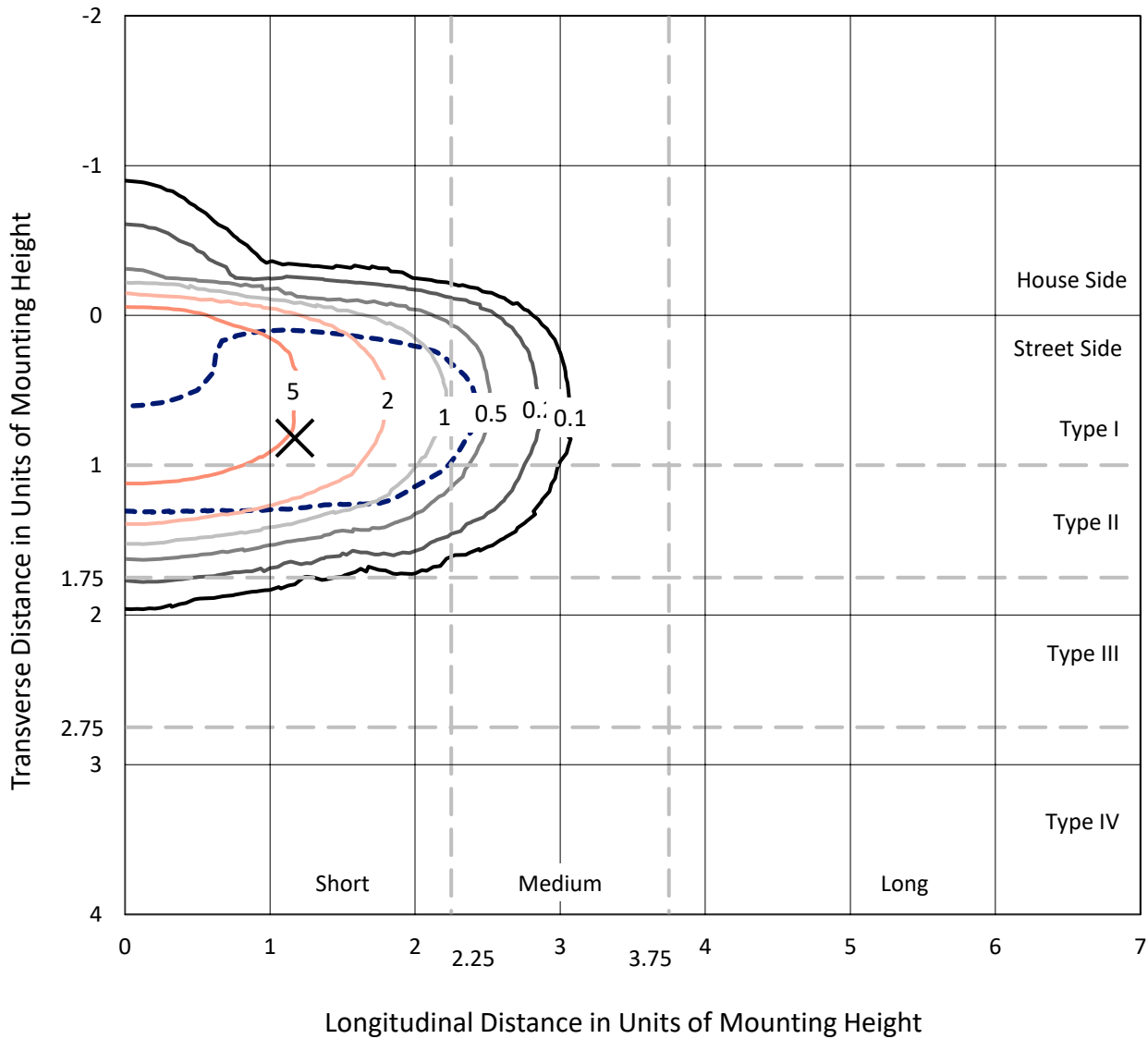
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

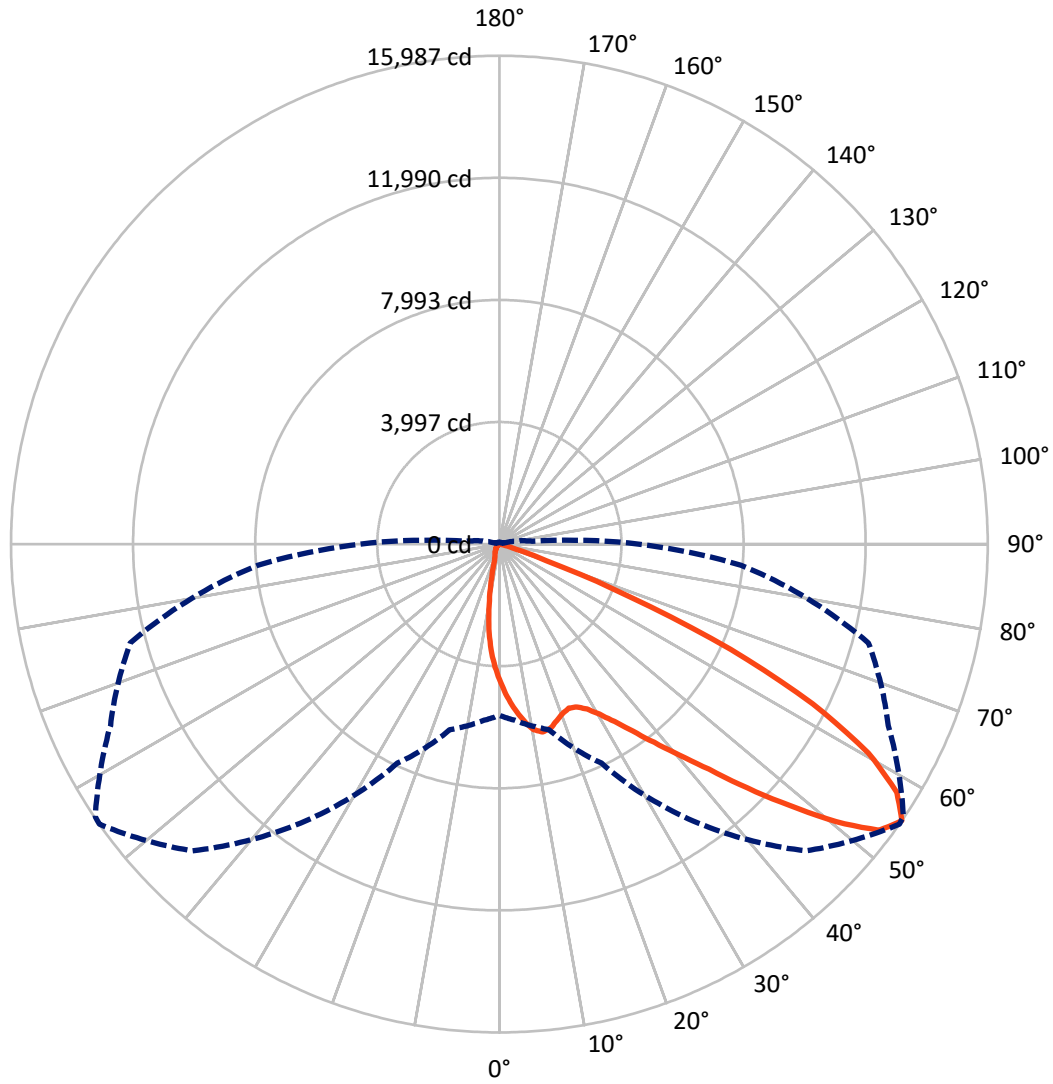
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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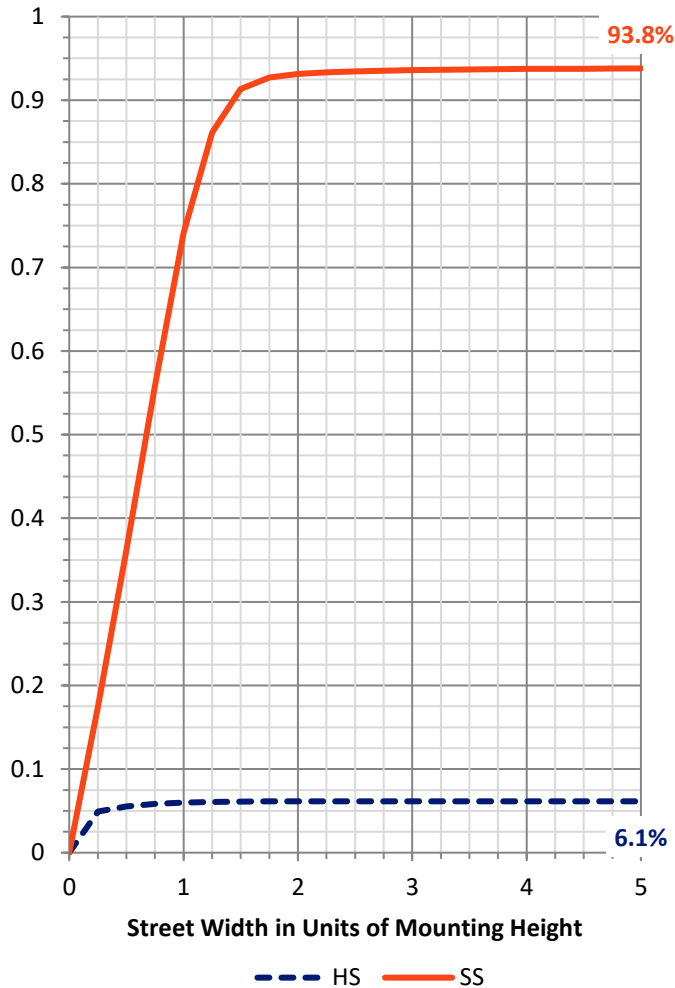
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.6	0.0	1080.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16431.3	0.0	16431.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	17511.9	0.0	17511.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	2.3
10°-20°	963.9	5.5
20°-30°	1605.3	9.2
30°-40°	2735.5	15.6
40°-50°	4465.3	25.5
50°-60°	4675.0	26.7
60°-70°	2358.0	13.5
70°-80°	297.8	1.7
80°-90°	11.3	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°	17511.9	100.0
0°-180°	17511.9	100.0

Coefficient of Utilization



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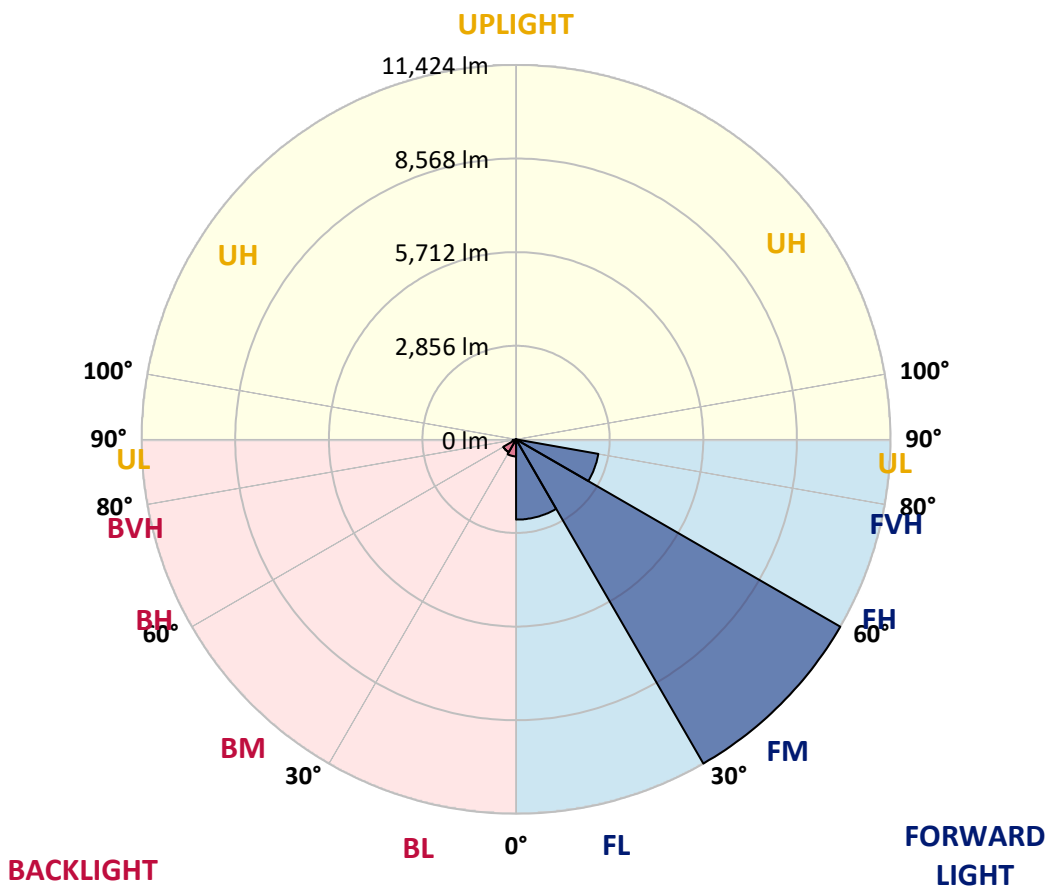
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2449.7	14.0			
FM (30°-60°)	11424.0	65.2			
FH (60°-80°)	2547.4	14.5			G2/5000
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	519.4	3.0	B2/1000		
BM (30°-60°)	451.8	2.6	B1/1000		
BH (60°-80°)	108.4	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	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°	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0
2.5°	5274.1	5248.6	5287.5	5242.6	5166.3	5101.9	5018.1	4988.1	4853.4	4726.1	4603.4
5°	5914.8	5922.3	5910.3	5847.4	5739.6	5619.9	5450.7	5413.3	5178.3	4935.7	4673.8
7.5°	6073.5	6069.0	6094.4	6118.4	6100.4	6040.5	5856.4	5819.0	5527.1	5163.3	4781.5
10°	5584.0	5586.9	5639.3	5801.0	6001.6	6209.7	6181.3	6160.3	5874.4	5420.8	4901.3
12.5°	4892.3	4919.3	4974.7	5205.2	5545.0	6018.1	6311.5	6332.5	6193.2	5703.7	5042.0
15°	4592.9	4598.9	4643.8	4783.0	5036.0	5619.9	6256.1	6314.5	6459.7	5988.2	5194.7
17.5°	4585.4	4592.9	4612.4	4673.8	4838.4	5307.0	6078.0	6179.8	6660.3	6293.5	5377.4
20°	4866.9	4862.4	4848.9	4816.0	4887.8	5203.7	5913.3	6025.6	6769.6	6591.5	5561.5
22.5°	5377.4	5371.4	5311.5	5175.3	5116.9	5298.0	5832.5	5934.3	6835.5	6856.4	5712.7
25°	5965.7	6007.6	5895.3	5688.7	5545.0	5539.0	5904.3	5976.2	6892.4	7091.5	5816.0
27.5°	6610.9	6624.4	6528.6	6296.5	6088.5	5925.3	6112.4	6166.3	6955.2	7301.1	5874.4
30°	7319.0	7314.5	7205.2	6935.8	6682.8	6447.7	6462.7	6483.7	7101.9	7540.6	5938.8
32.5°	8203.8	8223.2	8028.6	7661.8	7357.9	7033.1	6920.8	6923.8	7366.9	7849.0	6036.1
35°	9405.9	9358.0	9100.5	8578.0	8060.1	7709.7	7518.1	7501.7	7775.6	8263.7	6205.2
37.5°	10551.1	10555.6	10286.1	9711.3	9057.1	8504.7	8233.7	8188.8	8350.5	8838.5	6486.7
40°	11346.1	11361.0	11248.7	10947.8	10254.7	9473.3	9075.0	9028.6	9096.0	9566.1	6854.9
42.5°	11766.7	11808.6	11840.1	11910.4	11385.0	10682.9	10070.6	10066.1	9995.7	10395.4	7281.6
45°	11783.2	11846.1	12037.7	12518.2	12578.1	12063.1	11397.0	11296.6	11025.7	11283.2	7663.3
47.5°	11132.0	11277.2	11684.4	12636.5	13265.3	13435.9	12775.7	12714.3	11953.8	11985.3	7949.3
50°	9614.0	9765.2	10515.2	12030.2	13438.9	14525.8	14289.2	14162.0	12729.3	12449.4	8087.0
52.5°	8057.1	8194.8	8703.8	10587.1	12718.8	14868.6	15564.7	15413.5	13425.4	12611.0	8030.1
55°	5606.4	5790.5	6287.6	7913.3	11060.1	14200.9	15986.9	15955.4	14046.7	12509.3	7941.8
57.5°	2748.6	2931.2	3426.7	4878.8	8193.3	12398.5	15341.6	15507.8	14418.0	12400.0	7869.9
60°	1148.2	1223.1	1393.7	2140.8	4583.9	9370.0	13885.0	14115.6	14190.4	12251.8	7862.4
62.5°	666.2	678.2	696.1	887.7	1783.0	5371.4	11518.2	11846.1	12994.3	12055.6	7744.2
65°	503.0	507.5	500.0	544.9	736.5	2037.5	8322.0	8768.2	10846.0	11289.2	7277.1
67.5°	413.2	413.2	393.7	402.7	462.6	763.5	4594.4	5217.2	8025.6	9278.6	6009.1
70°	329.3	336.8	327.9	315.9	330.8	422.2	1634.8	2027.0	4673.8	5479.2	3504.6
72.5°	250.0	250.0	265.0	256.0	245.5	265.0	570.4	640.7	1875.8	2284.5	1265.0
75°	193.1	199.1	209.6	200.6	185.6	157.2	274.0	290.4	565.9	531.4	282.9
77.5°	98.8	100.3	133.2	146.7	137.7	95.8	119.8	131.7	184.1	164.7	104.8
80°	59.9	62.9	74.9	115.3	91.3	50.9	49.4	52.4	86.8	74.9	43.4
82.5°	25.4	26.9	41.9	41.9	37.4	19.5	19.5	19.5	41.9	38.9	18.0
85°	0.0	0.0	7.5	6.0	6.0	7.5	7.5	7.5	10.5	15.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	4.5
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°	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0	4524.0
2.5°	4524.0	4428.2	4299.5	4182.7	4025.5	3937.2	3814.5	3714.2	3628.8	3601.9	3589.9
5°	4525.5	4360.9	4085.4	3810.0	3471.6	3205.2	2931.2	2714.1	2536.0	2479.1	2464.1
7.5°	4555.5	4313.0	3866.8	3366.8	2801.0	2333.9	1916.2	1541.9	1368.3	1309.9	1297.9
10°	4595.9	4272.5	3613.9	2835.4	2022.5	1422.2	1007.5	768.0	654.2	591.3	600.3
12.5°	4648.3	4239.6	3333.9	2260.5	1338.4	781.5	553.9	464.1	440.1	428.2	422.2
15°	4718.7	4200.7	2986.6	1690.2	820.4	503.0	426.7	402.7	393.7	387.7	386.2
17.5°	4790.5	4155.8	2633.3	1188.6	544.9	417.7	383.2	371.3	365.3	360.8	359.3
20°	4866.9	4079.4	2218.6	818.9	429.6	375.8	353.3	339.8	332.3	324.9	323.4
22.5°	4899.8	3956.7	1821.9	573.4	381.7	345.8	317.4	300.9	291.9	285.9	285.9
25°	4868.4	3757.6	1411.7	435.6	347.3	312.9	284.4	266.5	259.0	253.0	253.0
27.5°	4784.5	3501.6	1030.0	360.8	309.9	278.4	251.5	235.0	229.0	226.1	226.1
30°	4691.7	3178.2	726.1	309.9	268.0	242.5	220.1	209.6	208.1	205.1	205.1
32.5°	4612.4	2875.8	500.0	272.5	236.5	211.1	196.1	191.6	193.1	190.1	191.6
35°	4569.0	2579.4	371.3	242.5	211.1	187.1	179.6	179.6	179.6	178.1	178.1
37.5°	4586.9	2287.5	302.4	221.6	188.6	170.7	163.2	166.2	169.2	169.2	169.2
40°	4676.7	2028.5	268.0	202.1	169.2	155.7	149.7	154.2	158.7	161.7	161.7
42.5°	4790.5	1818.9	242.5	185.6	155.7	140.7	137.7	142.2	146.7	149.7	149.7
45°	4862.4	1607.8	217.1	164.7	142.2	124.3	124.3	130.2	128.7	130.2	130.2
47.5°	4895.3	1440.2	191.6	142.2	121.3	107.8	109.3	112.3	109.3	112.3	112.3
50°	4814.5	1271.0	169.2	118.3	100.3	94.3	97.3	95.8	95.8	101.8	101.8
52.5°	4666.3	1145.2	149.7	100.3	85.3	83.8	86.8	80.8	82.3	82.3	80.8
55°	4557.0	1073.4	133.2	86.8	73.4	74.9	73.4	62.9	56.9	50.9	49.4
57.5°	4503.1	1044.9	121.3	77.8	65.9	65.9	59.9	43.4	32.9	25.4	22.5
60°	4491.1	1010.5	109.3	67.4	58.4	55.4	43.4	25.4	16.5	12.0	10.5
62.5°	4377.3	926.7	98.8	53.9	50.9	44.9	26.9	15.0	9.0	6.0	4.5
65°	4004.6	762.0	88.3	41.9	38.9	32.9	16.5	9.0	4.5	1.5	0.0
67.5°	3185.7	540.4	77.8	31.4	26.9	21.0	10.5	6.0	1.5	0.0	0.0
70°	1836.9	291.9	64.4	22.5	18.0	13.5	7.5	3.0	0.0	0.0	0.0
72.5°	613.8	136.2	49.4	15.0	13.5	10.5	4.5	1.5	0.0	0.0	0.0
75°	134.7	80.8	32.9	10.5	9.0	7.5	3.0	0.0	0.0	0.0	0.0
77.5°	50.9	56.9	16.5	7.5	6.0	4.5	1.5	0.0	0.0	0.0	0.0
80°	19.5	37.4	7.5	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	15.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	7.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	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)