

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: P641739

Luminaire Tested: GWS-SA6B-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17075.2 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

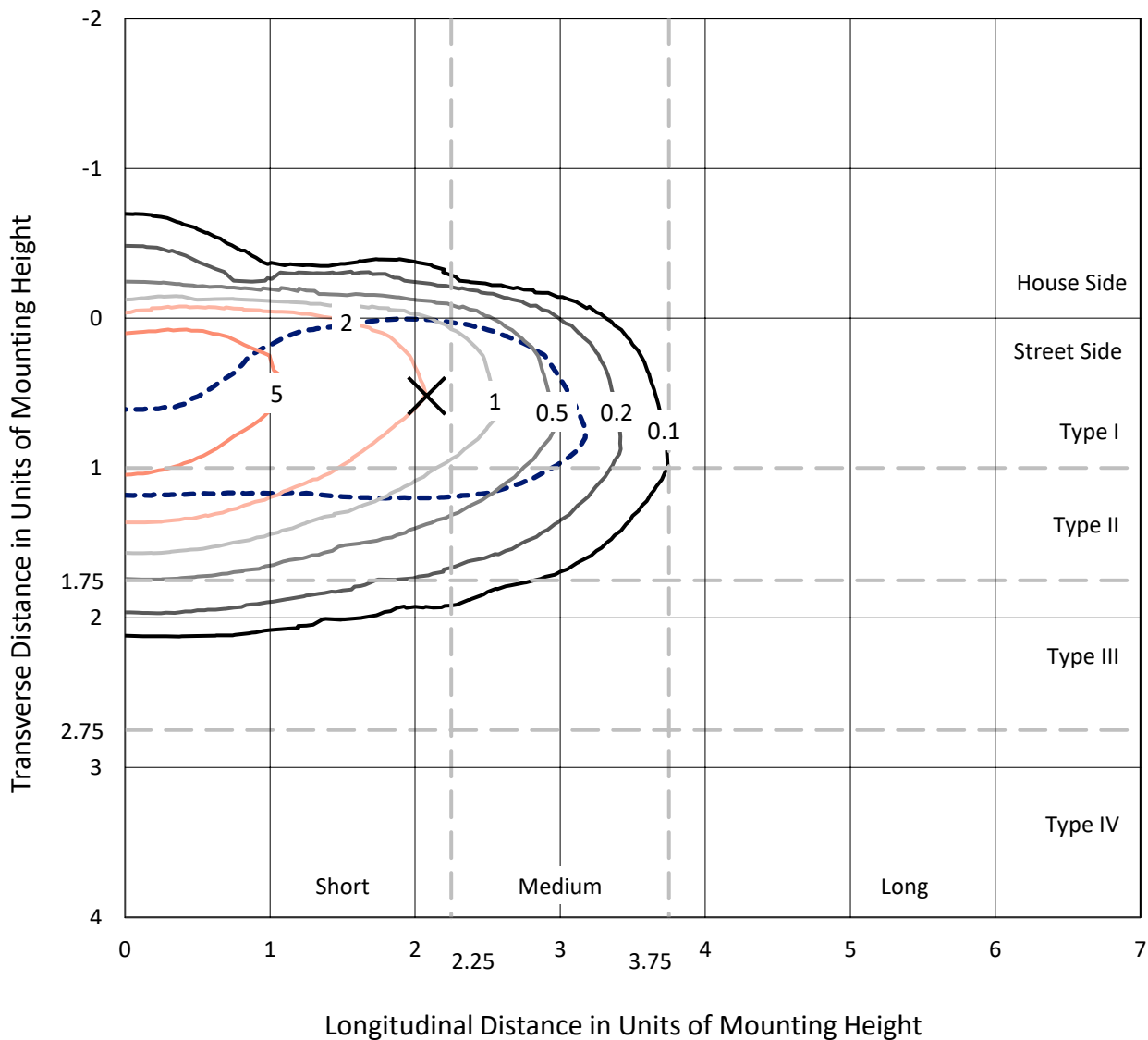
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

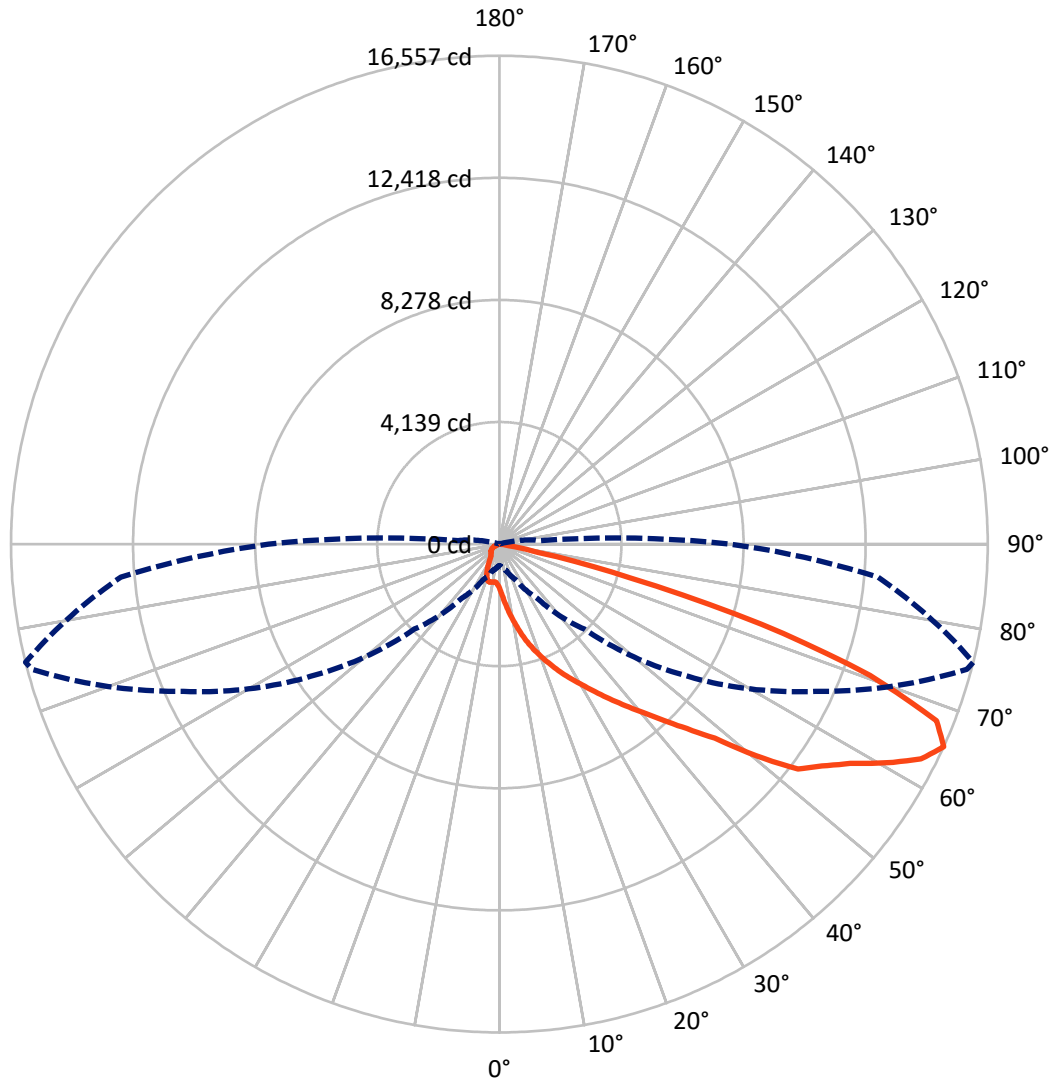
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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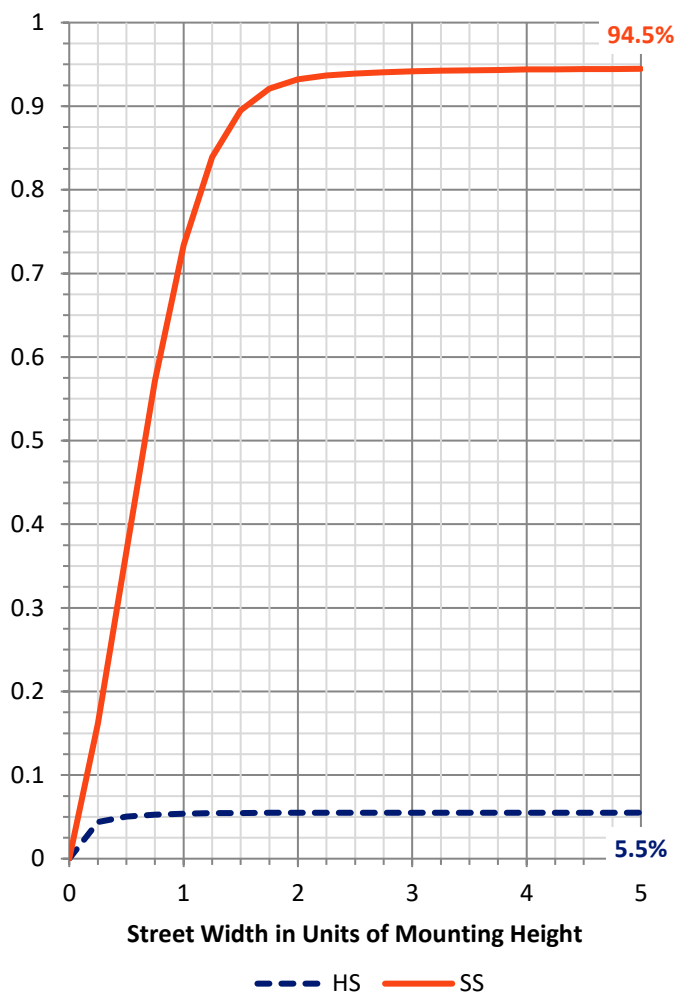
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.2	0.0	944.2
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	16131.1	0.0	16131.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	17075.2	0.0	17075.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.1
10°-20°	697.9	4.1
20°-30°	1423.7	8.3
30°-40°	2532.2	14.8
40°-50°	3743.2	21.9
50°-60°	4285.6	25.1
60°-70°	3269.7	19.1
70°-80°	915.9	5.4
80°-90°	23.1	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°	17075.2	100.0
0°-180°	17075.2	100.0

Coefficient of Utilization



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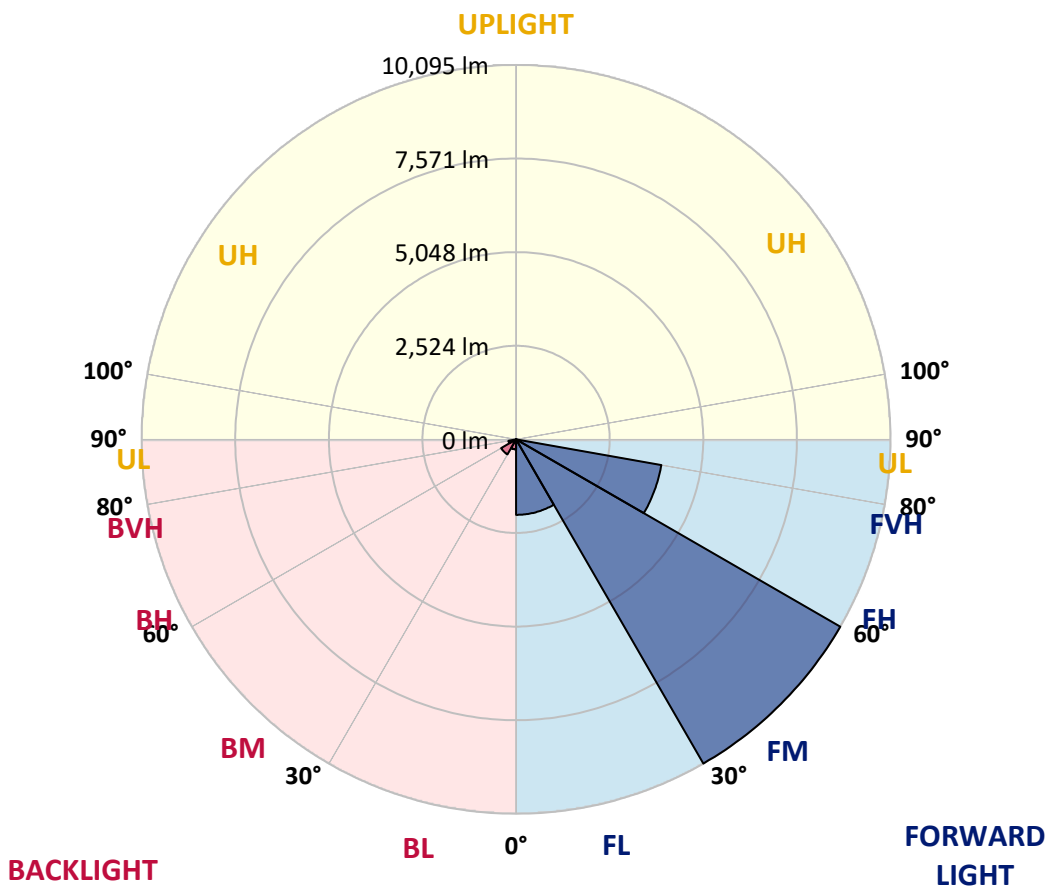
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.1	11.9			
FM (30°-60°)	10095.1	59.1			
FH (60°-80°)	3978.1	23.3			G2/5000
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	269.4	1.6	B1/500		
BM (30°-60°)	465.8	2.7	B1/1000		
BH (60°-80°)	207.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	2329.9	2364.8	2337.5	2292.0	2203.9	2118.9	2009.6	1859.4	1739.5	1724.3	1612.0
5°	3146.5	3143.5	3084.3	3025.1	2932.5	2786.8	2566.7	2287.4	2018.7	1996.0	1744.0
7.5°	3632.2	3636.8	3603.4	3557.8	3466.8	3316.5	3087.3	2750.3	2357.2	2311.7	1924.6
10°	4040.5	4039.0	4014.7	3993.5	3911.5	3811.3	3565.4	3195.1	2721.5	2650.2	2126.5
12.5°	4347.1	4357.7	4369.9	4391.1	4356.2	4257.6	4025.3	3621.6	3090.3	3011.4	2357.2
15°	4590.0	4593.0	4638.5	4720.5	4749.4	4697.7	4486.8	4034.4	3454.6	3386.3	2622.8
17.5°	4662.8	4668.9	4746.3	4896.6	5048.4	5077.2	4917.8	4450.3	3812.8	3740.0	2880.9
20°	4816.1	4829.8	4887.5	5019.5	5210.8	5365.6	5303.4	4870.8	4171.1	4075.4	3145.0
22.5°	5298.8	5306.4	5286.7	5303.4	5402.0	5581.1	5619.1	5277.6	4538.4	4436.7	3430.3
25°	6129.1	6132.1	5994.0	5863.5	5789.1	5822.5	5906.0	5652.5	4902.7	4802.5	3696.0
27.5°	6991.2	7001.8	6836.4	6614.8	6349.2	6197.4	6173.1	5995.5	5270.0	5159.2	3958.6
30°	7803.3	7803.3	7628.7	7358.5	7003.4	6707.4	6532.8	6341.6	5663.1	5541.7	4227.2
32.5°	8533.3	8527.3	8304.2	8011.2	7660.6	7335.8	6968.4	6702.8	6100.2	5965.1	4536.9
35°	9135.9	9120.8	8867.3	8586.5	8211.6	7970.2	7560.4	7091.4	6573.8	6438.7	4855.6
37.5°	9591.3	9574.6	9342.4	9044.9	8697.3	8540.9	8197.9	7557.4	7073.2	6950.2	5209.3
40°	9838.7	9805.3	9644.4	9422.8	9131.4	8994.8	8852.1	8135.7	7660.6	7507.3	5626.7
42.5°	9911.6	9872.1	9765.8	9662.6	9486.6	9378.8	9532.1	8788.3	8305.7	8173.6	6103.3
45°	9696.0	9673.3	9664.1	9738.5	9770.4	9800.8	10178.7	9510.8	9017.5	8917.4	6702.8
47.5°	9176.9	9170.8	9251.3	9560.9	9897.9	10218.2	10881.5	10401.8	9940.4	9832.6	7540.7
50°	8217.6	8279.9	8504.5	9047.9	9721.8	10454.9	11538.7	11637.4	11434.0	11276.1	8633.5
52.5°	6718.0	6837.9	7341.8	8167.5	9135.9	10388.2	11842.3	12627.0	12834.9	12671.0	9416.7
55°	5271.5	5383.8	5833.1	6880.4	8172.1	9879.7	11855.9	12968.5	13422.3	13270.6	9946.5
57.5°	3926.7	4029.9	4438.2	5440.0	6860.7	8879.4	11531.1	13158.2	14119.0	14021.9	10782.8
60°	2566.7	2668.4	3037.2	3913.0	5321.6	7422.3	10731.2	13118.8	15067.7	15058.6	11810.4
62.5°	1423.7	1504.2	1771.3	2454.4	3714.2	5748.1	9474.4	12722.6	15986.0	16043.7	12657.3
65°	728.6	780.2	942.6	1349.4	2247.9	4075.4	7821.5	11814.9	16411.0	16556.7	12880.5
67.5°	476.6	493.3	532.8	701.2	1203.7	2563.6	5886.2	10359.3	15813.0	15983.0	12132.2
70°	387.1	400.7	423.5	467.5	620.8	1361.5	3866.0	8273.8	13212.9	13328.2	9661.1
72.5°	283.8	302.1	346.1	374.9	447.8	746.8	2011.2	5430.9	9073.7	9277.1	6071.4
75°	209.5	220.1	256.5	296.0	365.8	472.1	769.5	2855.1	4685.6	4567.2	2550.0
77.5°	126.0	133.6	163.9	189.7	261.1	294.5	268.7	1054.9	1425.3	1340.3	616.2
80°	62.2	69.8	107.8	142.7	167.0	118.4	112.3	294.5	317.2	317.2	154.8
82.5°	21.2	27.3	57.7	94.1	82.0	45.5	53.1	75.9	85.0	89.6	45.5
85°	0.0	0.0	13.7	27.3	12.1	6.1	13.7	16.7	21.2	22.8	15.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.6	6.1	6.1
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°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1551.2	1479.9	1372.1	1275.0	1200.6	1130.8	1077.7	1035.2	1027.6	1003.3	1006.3
5°	1621.1	1492.0	1293.2	1139.9	1032.1	959.3	898.6	853.0	833.3	813.6	798.4
7.5°	1728.8	1542.1	1262.9	1076.2	950.2	837.9	743.7	667.9	631.4	608.7	593.5
10°	1860.9	1612.0	1264.4	1038.2	851.5	680.0	551.0	467.5	428.0	415.9	414.4
12.5°	2018.7	1700.0	1276.5	976.0	708.8	505.4	408.3	370.4	358.2	347.6	347.6
15°	2185.7	1798.7	1276.5	862.1	540.4	394.6	353.7	329.4	314.2	308.1	305.1
17.5°	2361.8	1891.2	1246.2	705.8	414.4	347.6	314.2	291.4	279.3	270.2	267.1
20°	2550.0	1979.3	1170.3	540.4	355.2	311.2	279.3	256.5	244.4	235.3	235.3
22.5°	2741.2	2061.2	1047.3	415.9	314.2	276.2	245.9	224.6	212.5	203.4	203.4
25°	2918.8	2115.9	889.5	343.0	283.8	245.9	218.6	197.3	183.7	177.6	174.6
27.5°	3084.3	2150.8	714.9	302.1	255.0	220.1	191.2	171.5	160.9	156.3	153.3
30°	3255.8	2159.9	546.4	274.7	230.7	194.3	167.0	151.8	142.7	136.6	136.6
32.5°	3422.8	2149.3	417.4	252.0	209.5	171.5	148.7	135.1	127.5	122.9	121.4
35°	3592.7	2100.7	338.5	232.2	188.2	150.3	132.1	121.4	116.9	110.8	110.8
37.5°	3777.9	2035.4	294.5	212.5	167.0	135.1	118.4	110.8	104.7	100.2	98.7
40°	4008.6	1959.5	270.2	195.8	147.2	121.4	106.2	98.7	94.1	89.6	88.0
42.5°	4281.9	1885.2	258.0	177.6	132.1	107.8	95.6	86.5	82.0	75.9	74.4
45°	4668.9	1868.5	244.4	157.9	118.4	97.1	83.5	74.4	68.3	63.7	62.2
47.5°	5291.2	1915.5	221.6	136.6	104.7	85.0	71.3	63.7	56.2	51.6	48.6
50°	5909.0	1903.4	198.8	118.4	92.6	72.9	60.7	53.1	45.5	41.0	39.5
52.5°	6246.0	1845.7	177.6	104.7	80.4	62.2	51.6	42.5	37.9	33.4	31.9
55°	6551.0	1822.9	156.3	91.1	68.3	54.6	42.5	34.9	31.9	27.3	25.8
57.5°	7149.1	1876.1	138.1	78.9	59.2	47.1	36.4	28.8	25.8	21.2	19.7
60°	7774.4	1882.1	118.4	68.3	51.6	39.5	28.8	22.8	19.7	15.2	13.7
62.5°	8100.8	1728.8	97.1	57.7	42.5	33.4	24.3	18.2	15.2	9.1	9.1
65°	7827.5	1397.9	82.0	47.1	33.4	25.8	18.2	13.7	9.1	4.6	1.5
67.5°	6927.5	994.2	68.3	37.9	24.3	18.2	13.7	9.1	1.5	0.0	0.0
70°	5072.7	567.7	53.1	27.3	18.2	12.1	9.1	4.6	0.0	0.0	0.0
72.5°	3117.7	303.6	39.5	18.2	13.7	9.1	7.6	3.0	0.0	0.0	0.0
75°	1182.4	145.7	24.3	12.1	10.6	7.6	4.6	1.5	0.0	0.0	0.0
77.5°	320.3	71.3	13.7	9.1	7.6	4.6	3.0	0.0	0.0	0.0	0.0
80°	83.5	33.4	9.1	6.1	4.6	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.8	15.2	4.6	4.6	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	12.1	6.1	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.5	1.5	1.5	1.5	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)