

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: P639264

Luminaire Tested: GWS-SA5B-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639264
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-SA5B-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14319.7 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

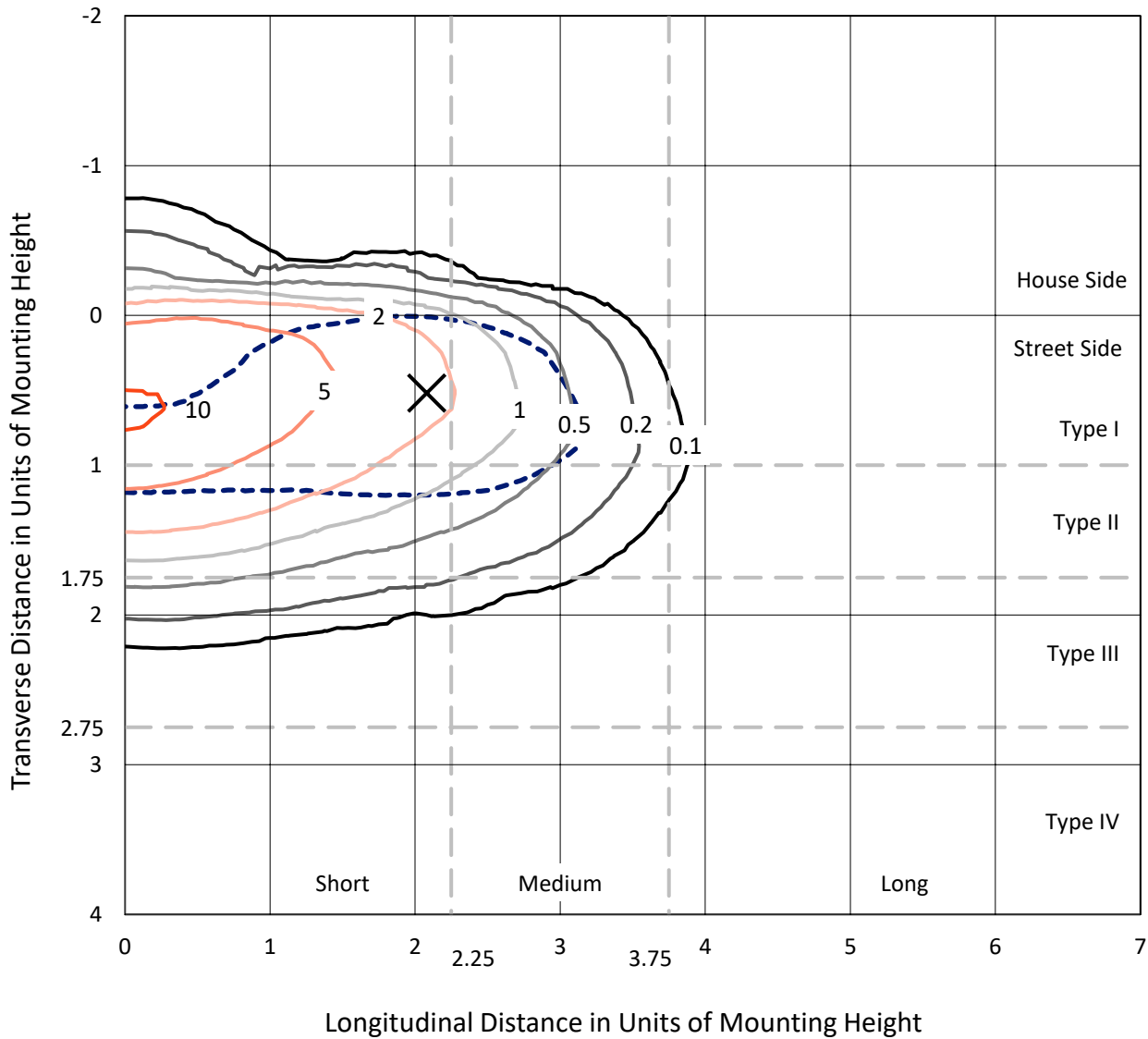
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

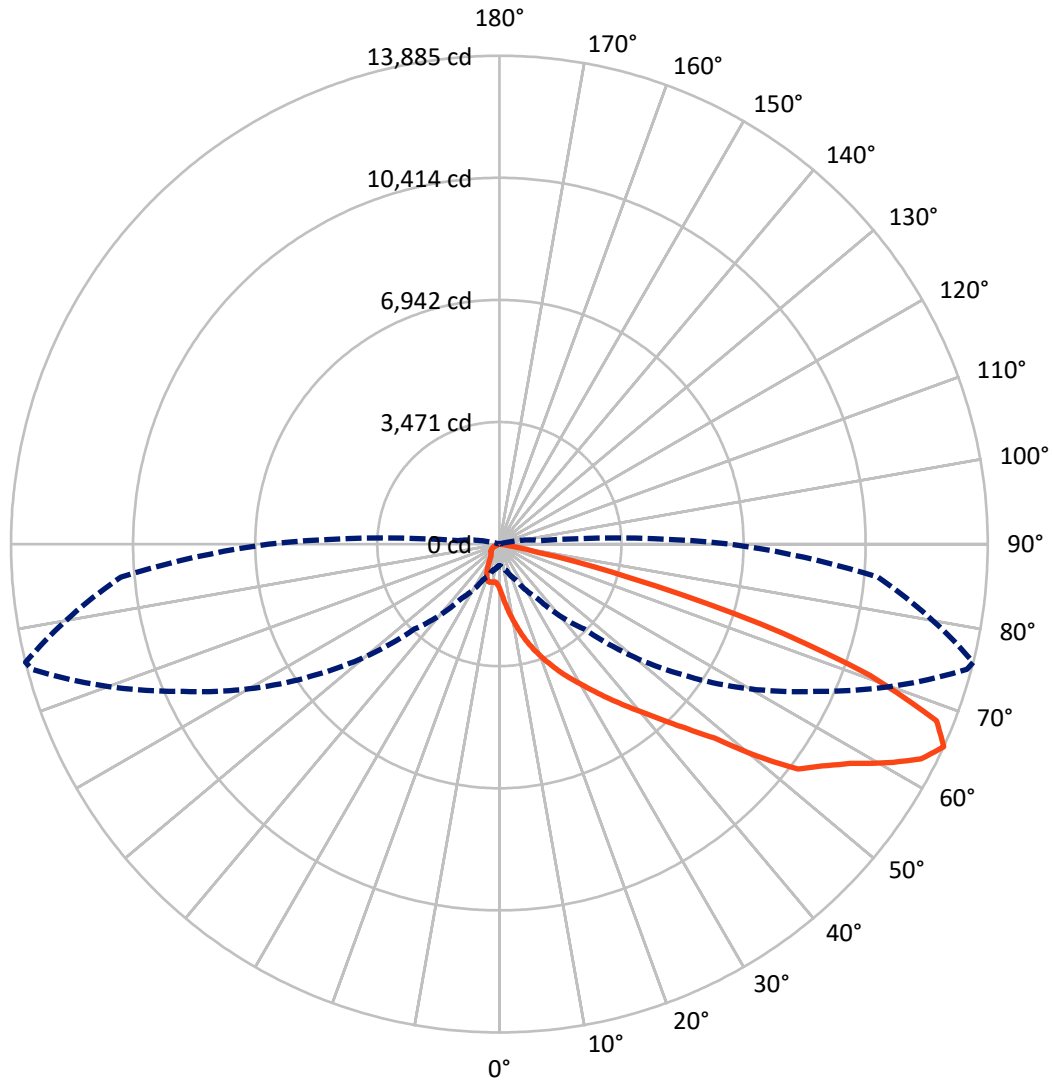
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 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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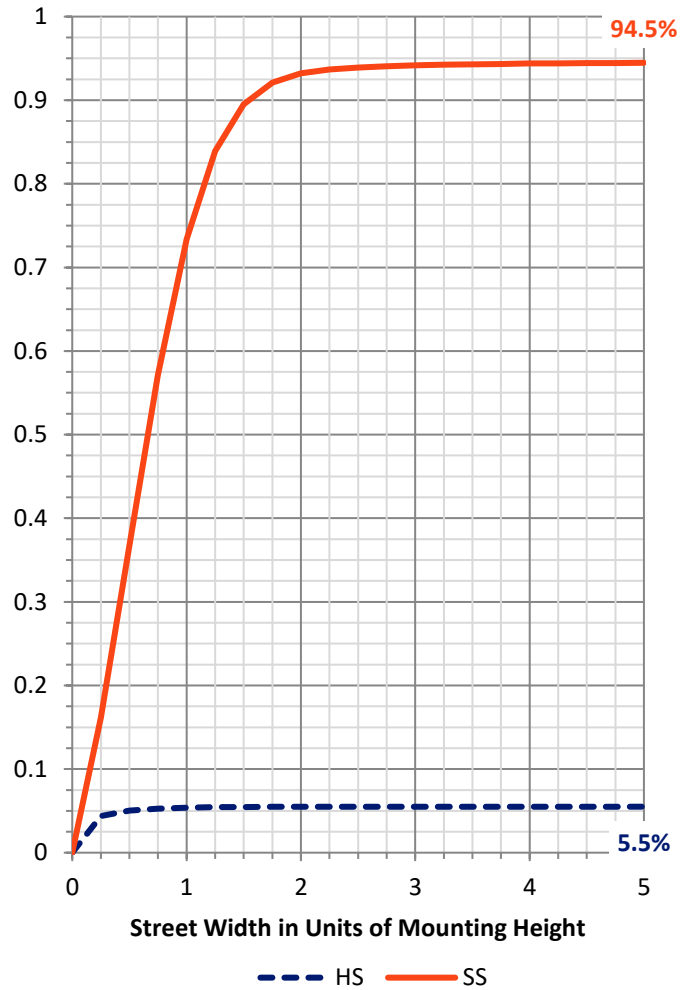
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.8	0.0	791.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13527.9	0.0	13527.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	14319.7	0.0	14319.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.1
10°-20°	585.2	4.1
20°-30°	1194.0	8.3
30°-40°	2123.5	14.8
40°-50°	3139.1	21.9
50°-60°	3594.0	25.1
60°-70°	2742.1	19.1
70°-80°	768.1	5.4
80°-90°	19.3	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°	14319.7	100.0
0°-180°	14319.7	100.0

Coefficient of Utilization



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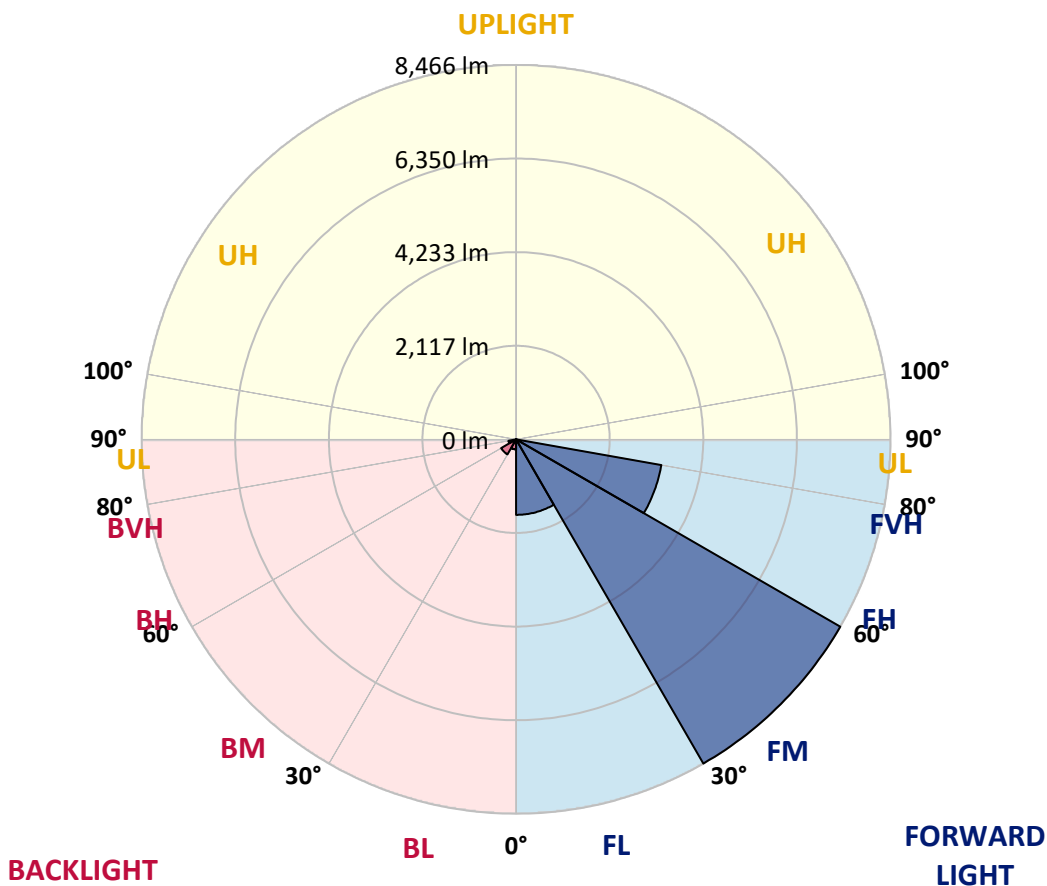
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.5	11.9			
FM (30°-60°)	8466.0	59.1			
FH (60°-80°)	3336.1	23.3			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	225.9	1.6	B1/500		
BM (30°-60°)	390.7	2.7	B1/1000		
BH (60°-80°)	174.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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°	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8
2.5°	1953.9	1983.2	1960.3	1922.1	1848.3	1777.0	1685.3	1559.3	1458.8	1446.0	1351.8
5°	2638.7	2636.2	2586.5	2536.9	2459.3	2337.1	2152.5	1918.3	1693.0	1673.9	1462.6
7.5°	3046.1	3049.9	3021.9	2983.7	2907.3	2781.3	2589.1	2306.5	1976.8	1938.6	1614.0
10°	3388.5	3387.2	3366.8	3349.0	3280.3	3196.3	2990.1	2679.5	2282.3	2222.5	1783.3
12.5°	3645.6	3654.5	3664.7	3682.5	3653.2	3570.5	3375.8	3037.2	2591.6	2525.4	1976.8
15°	3849.3	3851.8	3890.0	3958.7	3982.9	3939.6	3762.7	3383.4	2897.1	2839.9	2199.6
17.5°	3910.4	3915.5	3980.4	4106.4	4233.7	4257.9	4124.2	3732.2	3197.5	3136.4	2416.0
20°	4038.9	4050.4	4098.8	4209.5	4369.9	4499.7	4447.5	4084.8	3497.9	3417.8	2637.5
22.5°	4443.7	4450.1	4433.5	4447.5	4530.3	4680.5	4712.3	4425.9	3806.0	3720.7	2876.8
25°	5140.0	5142.5	5026.7	4917.2	4854.9	4882.9	4952.9	4740.3	4111.5	4027.5	3099.5
27.5°	5863.0	5871.9	5733.2	5547.3	5324.6	5197.3	5176.9	5028.0	4419.5	4326.6	3319.7
30°	6544.0	6544.0	6397.6	6171.1	5873.2	5625.0	5478.6	5318.2	4749.2	4647.4	3545.0
32.5°	7156.3	7151.2	6964.1	6718.4	6424.4	6152.0	5843.9	5621.2	5115.8	5002.5	3804.7
35°	7661.6	7648.9	7436.3	7200.8	6886.4	6684.0	6340.4	5947.0	5513.0	5399.7	4072.0
37.5°	8043.5	8029.5	7834.7	7585.3	7293.8	7162.6	6875.0	6337.8	5931.7	5828.6	4368.6
40°	8251.0	8223.0	8088.1	7902.2	7657.8	7543.2	7423.6	6822.8	6424.4	6295.8	4718.7
42.5°	8312.1	8279.0	8189.9	8103.3	7955.7	7865.3	7993.9	7370.1	6965.3	6854.6	5118.4
45°	8131.3	8112.2	8104.6	8167.0	8193.7	8219.2	8536.1	7976.0	7562.3	7478.3	5621.2
47.5°	7696.0	7690.9	7758.4	8018.0	8300.6	8569.2	9125.5	8723.2	8336.3	8245.9	6323.8
50°	6891.5	6943.7	7132.1	7587.8	8153.0	8767.8	9676.6	9759.4	9588.8	9456.4	7240.3
52.5°	5633.9	5734.4	6157.1	6849.5	7661.6	8711.8	9931.2	10589.3	10763.7	10626.2	7897.1
55°	4420.8	4515.0	4891.8	5770.1	6853.3	8285.4	9942.7	10875.7	11256.3	11129.0	8341.4
57.5°	3293.0	3379.6	3722.0	4562.1	5753.5	7446.5	9670.3	11034.8	11840.6	11759.1	9042.7
60°	2152.5	2237.8	2547.1	3281.6	4462.8	6224.5	8999.5	11001.7	12636.2	12628.5	9904.5
62.5°	1194.0	1261.5	1485.5	2058.3	3114.8	4820.5	7945.5	10669.5	13406.3	13454.6	10614.8
65°	611.0	654.3	790.5	1131.6	1885.2	3417.8	6559.3	9908.3	13762.7	13884.9	10801.9
67.5°	399.7	413.7	446.8	588.1	1009.4	2149.9	4936.3	8687.6	13261.1	13403.7	10174.3
70°	324.6	336.0	355.1	392.1	520.6	1141.8	3242.1	6938.6	11080.7	11177.4	8102.1
72.5°	238.0	253.3	290.2	314.4	375.5	626.3	1686.6	4554.5	7609.4	7780.0	5091.6
75°	175.7	184.6	215.1	248.2	306.8	395.9	645.4	2394.3	3929.5	3830.2	2138.5
77.5°	105.7	112.0	137.5	159.1	218.9	246.9	225.3	884.7	1195.3	1124.0	516.8
80°	52.2	58.6	90.4	119.7	140.0	99.3	94.2	246.9	266.0	266.0	129.8
82.5°	17.8	22.9	48.4	78.9	68.7	38.2	44.6	63.6	71.3	75.1	38.2
85°	0.0	0.0	11.5	22.9	10.2	5.1	11.5	14.0	17.8	19.1	12.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.1	5.1
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°	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8	1267.8
2.5°	1300.9	1241.1	1150.7	1069.2	1006.9	948.3	903.8	868.1	861.8	841.4	843.9
5°	1359.5	1251.3	1084.5	956.0	865.6	804.5	753.6	715.4	698.8	682.3	669.5
7.5°	1449.8	1293.3	1059.1	902.5	796.8	702.6	623.7	560.1	529.5	510.4	497.7
10°	1560.6	1351.8	1060.3	870.7	714.1	570.3	462.1	392.1	359.0	348.8	347.5
12.5°	1693.0	1425.7	1070.5	818.5	594.4	423.9	342.4	310.6	300.4	291.5	291.5
15°	1833.0	1508.4	1070.5	723.0	453.2	331.0	296.6	276.2	263.5	258.4	255.9
17.5°	1980.6	1586.0	1045.1	591.9	347.5	291.5	263.5	244.4	234.2	226.6	224.0
20°	2138.5	1659.9	981.4	453.2	297.9	260.9	234.2	215.1	204.9	197.3	197.3
22.5°	2298.9	1728.6	878.3	348.8	263.5	231.7	206.2	188.4	178.2	170.6	170.6
25°	2447.8	1774.4	745.9	287.7	238.0	206.2	183.3	165.5	154.0	148.9	146.4
27.5°	2586.5	1803.7	599.5	253.3	213.8	184.6	160.4	143.8	134.9	131.1	128.6
30°	2730.4	1811.3	458.2	230.4	193.5	162.9	140.0	127.3	119.7	114.6	114.6
32.5°	2870.4	1802.4	350.0	211.3	175.7	143.8	124.7	113.3	106.9	103.1	101.8
35°	3013.0	1761.7	283.9	194.8	157.8	126.0	110.7	101.8	98.0	92.9	92.9
37.5°	3168.3	1707.0	246.9	178.2	140.0	113.3	99.3	92.9	87.8	84.0	82.7
40°	3361.7	1643.3	226.6	164.2	123.5	101.8	89.1	82.7	78.9	75.1	73.8
42.5°	3590.9	1581.0	216.4	148.9	110.7	90.4	80.2	72.6	68.7	63.6	62.4
45°	3915.5	1566.9	204.9	132.4	99.3	81.5	70.0	62.4	57.3	53.5	52.2
47.5°	4437.4	1606.4	185.8	114.6	87.8	71.3	59.8	53.5	47.1	43.3	40.7
50°	4955.4	1596.2	166.8	99.3	77.6	61.1	50.9	44.6	38.2	34.4	33.1
52.5°	5238.0	1547.9	148.9	87.8	67.5	52.2	43.3	35.6	31.8	28.0	26.7
55°	5493.9	1528.8	131.1	76.4	57.3	45.8	35.6	29.3	26.7	22.9	21.6
57.5°	5995.4	1573.3	115.8	66.2	49.6	39.5	30.5	24.2	21.6	17.8	16.5
60°	6519.8	1578.4	99.3	57.3	43.3	33.1	24.2	19.1	16.5	12.7	11.5
62.5°	6793.5	1449.8	81.5	48.4	35.6	28.0	20.4	15.3	12.7	7.6	7.6
65°	6564.4	1172.3	68.7	39.5	28.0	21.6	15.3	11.5	7.6	3.8	1.3
67.5°	5809.5	833.8	57.3	31.8	20.4	15.3	11.5	7.6	1.3	0.0	0.0
70°	4254.1	476.1	44.6	22.9	15.3	10.2	7.6	3.8	0.0	0.0	0.0
72.5°	2614.6	254.6	33.1	15.3	11.5	7.6	6.4	2.5	0.0	0.0	0.0
75°	991.6	122.2	20.4	10.2	8.9	6.4	3.8	1.3	0.0	0.0	0.0
77.5°	268.6	59.8	11.5	7.6	6.4	3.8	2.5	0.0	0.0	0.0	0.0
80°	70.0	28.0	7.6	5.1	3.8	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	24.2	12.7	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.1	2.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.3	1.3	1.3	1.3	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)