

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: P639374

Luminaire Tested: GWS-SA5B-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639374
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14447.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

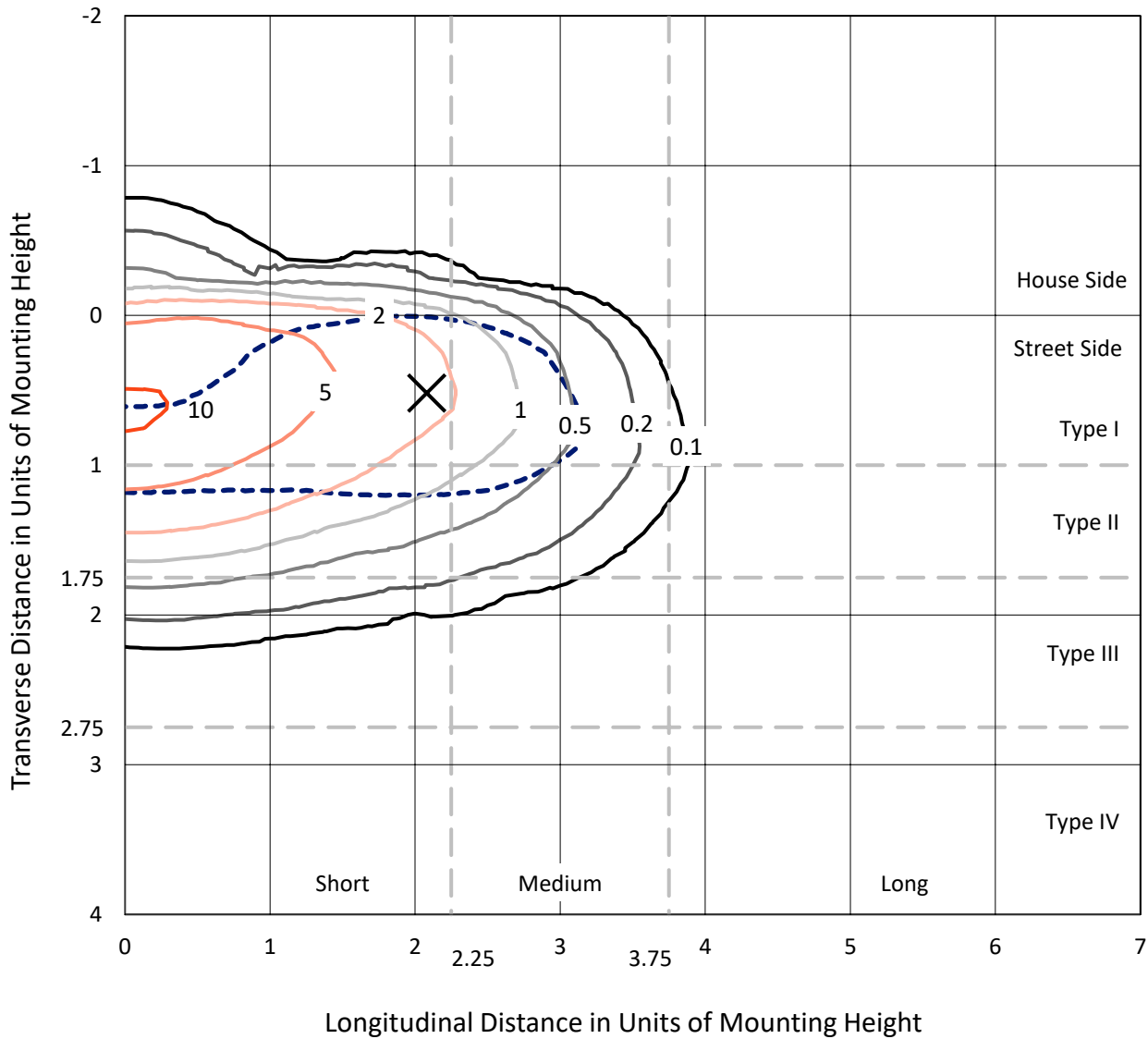
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

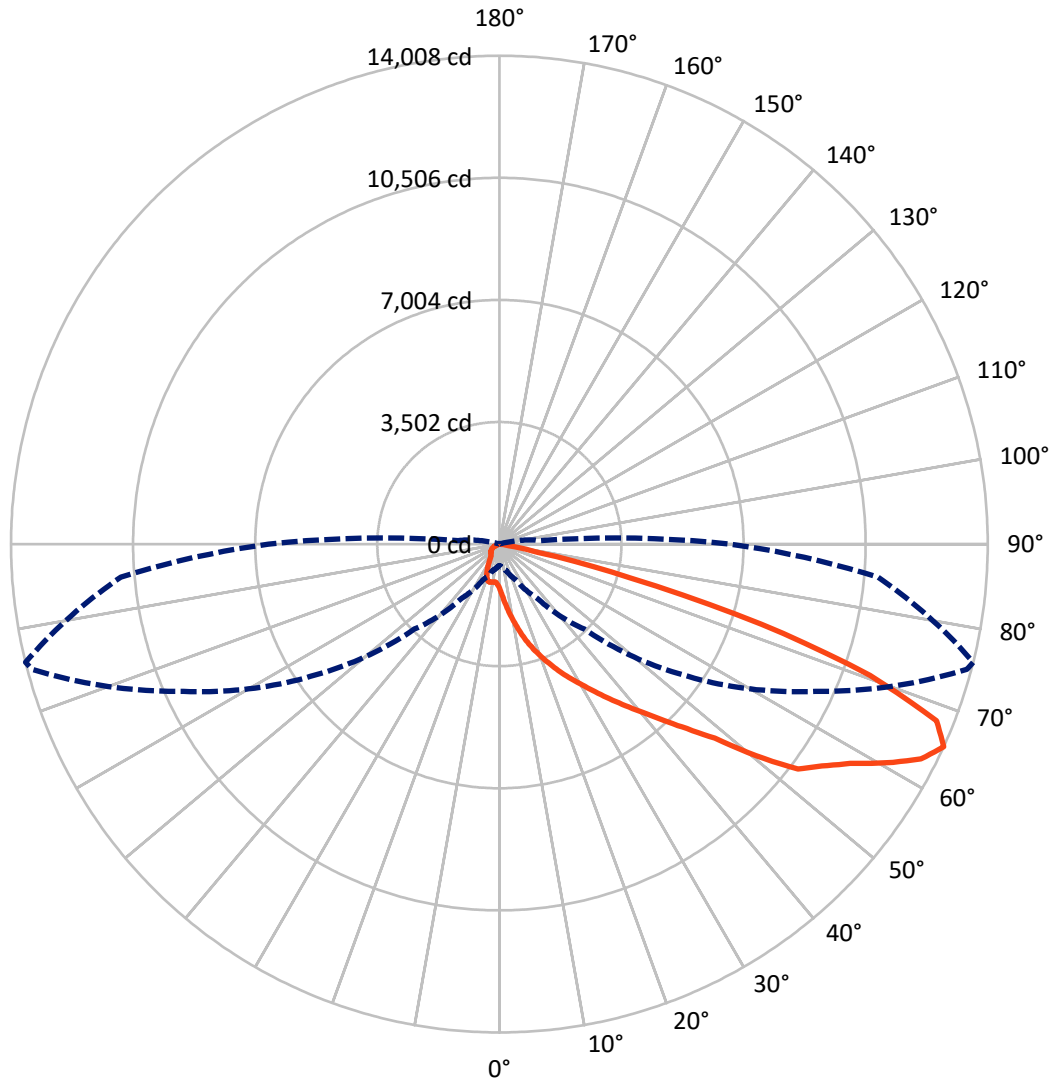
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 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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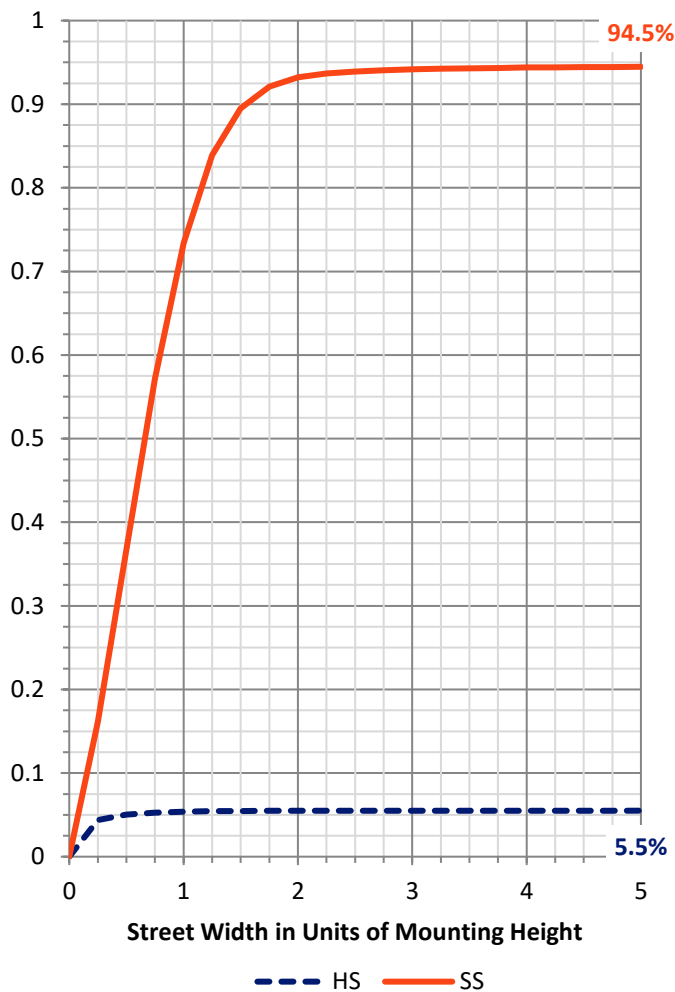
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.8	0.0	798.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13648.3	0.0	13648.3
	% Fixture	94.5	0.0	94.5
Total	Lumens	14447.1	0.0	14447.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.1
10°-20°	590.5	4.1
20°-30°	1204.6	8.3
30°-40°	2142.4	14.8
40°-50°	3167.0	21.9
50°-60°	3626.0	25.1
60°-70°	2766.5	19.1
70°-80°	774.9	5.4
80°-90°	19.5	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°	14447.1	100.0
0°-180°	14447.1	100.0

Coefficient of Utilization



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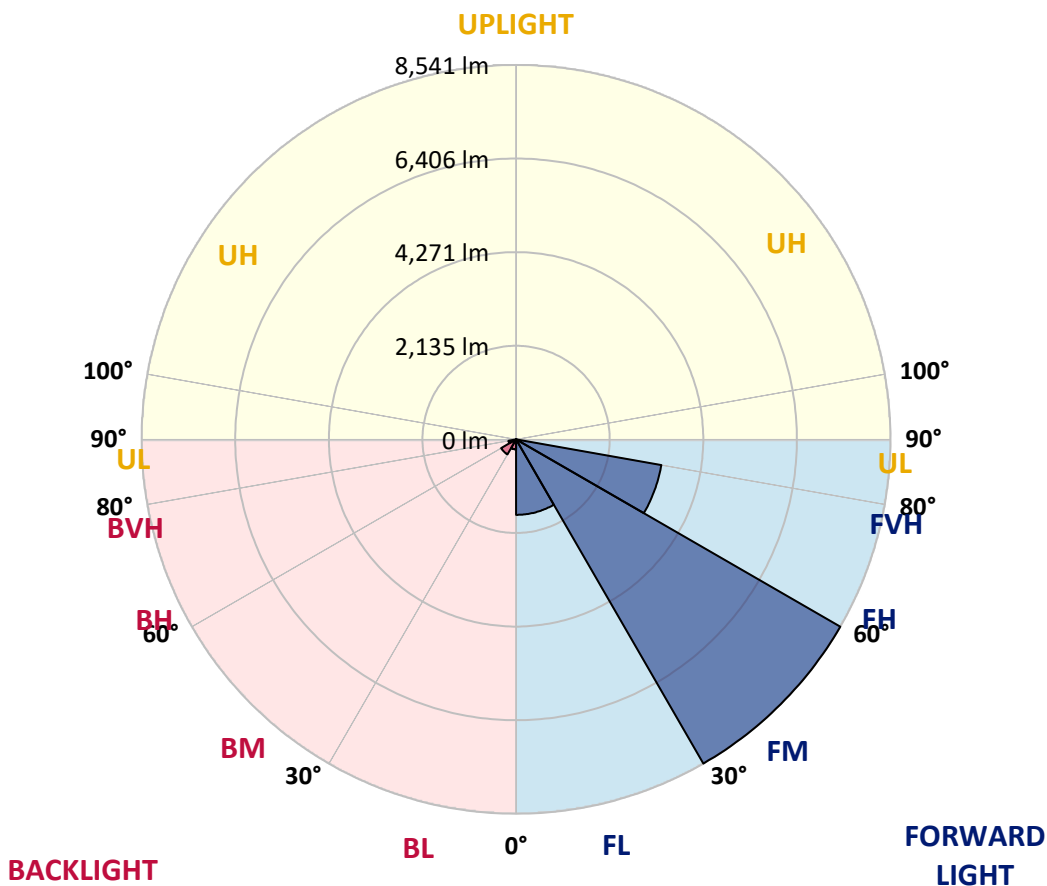
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.7	11.9			
FM (30°-60°)	8541.4	59.1			
FH (60°-80°)	3365.8	23.3			G2/5000
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	228.0	1.6	B1/500		
BM (30°-60°)	394.1	2.7	B1/1000		
BH (60°-80°)	175.6	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°	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1971.3	2000.8	1977.7	1939.2	1864.7	1792.8	1700.3	1573.2	1471.7	1458.9	1363.9
5°	2662.2	2659.6	2609.6	2559.5	2481.1	2357.9	2171.6	1935.3	1708.0	1688.8	1475.6
7.5°	3073.2	3077.0	3048.8	3010.2	2933.2	2806.0	2612.1	2327.0	1994.4	1955.9	1628.4
10°	3418.6	3417.3	3396.8	3378.8	3309.5	3224.7	3016.7	2703.3	2302.6	2242.3	1799.2
12.5°	3678.0	3687.0	3697.3	3715.3	3685.7	3602.3	3405.8	3064.2	2614.7	2547.9	1994.4
15°	3883.5	3886.1	3924.6	3994.0	4018.4	3974.7	3796.2	3413.5	2922.9	2865.1	2219.2
17.5°	3945.2	3950.3	4015.8	4142.9	4271.4	4295.8	4160.9	3765.4	3226.0	3164.3	2437.5
20°	4074.9	4086.4	4135.2	4247.0	4408.8	4539.8	4487.1	4121.1	3529.1	3448.2	2660.9
22.5°	4483.3	4489.7	4473.0	4487.1	4570.6	4722.1	4754.2	4465.3	3839.9	3753.8	2902.4
25°	5185.7	5188.3	5071.4	4961.0	4898.1	4926.3	4996.9	4782.5	4148.1	4063.3	3127.1
27.5°	5915.2	5924.2	5784.2	5596.7	5371.9	5243.5	5223.0	5072.7	4458.9	4365.1	3349.3
30°	6602.2	6602.2	6454.6	6226.0	5925.4	5675.0	5527.3	5365.5	4791.5	4688.7	3576.6
32.5°	7220.0	7214.8	7026.0	6778.2	6481.5	6206.7	5895.9	5671.2	5161.3	5047.0	3838.6
35°	7729.8	7717.0	7502.5	7264.9	6947.7	6743.5	6396.8	5999.9	5562.0	5447.7	4108.3
37.5°	8115.1	8100.9	7904.4	7652.7	7358.7	7226.4	6936.1	6394.2	5984.5	5880.5	4407.5
40°	8324.4	8296.1	8160.0	7972.5	7725.9	7610.4	7489.6	6883.5	6481.5	6351.8	4760.6
42.5°	8386.0	8352.6	8262.8	8175.4	8026.5	7935.3	8065.0	7435.7	7027.3	6915.6	5163.9
45°	8203.7	8184.4	8176.7	8239.6	8266.6	8292.3	8612.1	8047.0	7629.6	7544.9	5671.2
47.5°	7764.5	7759.3	7827.4	8089.4	8374.5	8645.5	9206.7	8800.8	8410.4	8319.3	6380.1
50°	6952.8	7005.5	7195.6	7655.3	8225.5	8845.8	9762.7	9846.2	9674.1	9540.6	7304.7
52.5°	5684.0	5785.5	6211.8	6910.5	7729.8	8789.3	10019.6	10683.5	10859.5	10720.8	7967.4
55°	4460.1	4555.2	4935.3	5821.4	6914.3	8359.1	10031.1	10972.5	11356.5	11228.0	8415.6
57.5°	3322.3	3409.6	3755.1	4602.7	5804.7	7512.8	9756.3	11133.0	11945.9	11863.7	9123.2
60°	2171.6	2257.7	2569.7	3310.8	4502.5	6279.9	9079.5	11099.6	12748.6	12740.9	9992.6
62.5°	1204.6	1272.7	1498.7	2076.6	3142.5	4863.4	8016.2	10764.4	13525.5	13574.3	10709.2
65°	616.4	660.1	797.5	1141.7	1901.9	3448.2	6617.6	9996.5	13885.1	14008.4	10898.0
67.5°	403.2	417.4	450.8	593.3	1018.4	2169.1	4980.3	8764.9	13379.1	13523.0	10264.9
70°	327.5	339.0	358.3	395.5	525.3	1152.0	3270.9	7000.3	11179.2	11276.8	8174.1
72.5°	240.2	255.6	292.8	317.2	378.8	631.8	1701.6	4595.0	7677.1	7849.2	5136.9
75°	177.2	186.2	217.0	250.4	309.5	399.4	651.1	2415.6	3964.4	3864.3	2157.5
77.5°	106.6	113.0	138.7	160.5	220.9	249.1	227.3	892.5	1205.9	1134.0	521.4
80°	52.7	59.1	91.2	120.7	141.3	100.2	95.0	249.1	268.4	268.4	131.0
82.5°	18.0	23.1	48.8	79.6	69.3	38.5	44.9	64.2	71.9	75.8	38.5
85°	0.0	0.0	11.6	23.1	10.3	5.1	11.6	14.1	18.0	19.3	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	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°	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1312.5	1252.1	1160.9	1078.8	1015.8	956.8	911.8	875.8	869.4	848.9	851.4
5°	1371.6	1262.4	1094.2	964.5	873.3	811.6	760.3	721.7	705.0	688.3	675.5
7.5°	1462.7	1304.8	1068.5	910.5	803.9	708.9	629.3	565.1	534.2	515.0	502.1
10°	1574.5	1363.9	1069.8	878.4	720.5	575.3	466.2	395.5	362.2	351.9	350.6
12.5°	1708.0	1438.3	1080.0	825.8	599.7	427.6	345.5	313.4	303.1	294.1	294.1
15°	1849.3	1521.8	1080.0	729.4	457.2	333.9	299.2	278.7	265.8	260.7	258.1
17.5°	1998.3	1600.2	1054.4	597.2	350.6	294.1	265.8	246.6	236.3	228.6	226.0
20°	2157.5	1674.6	990.1	457.2	300.5	263.3	236.3	217.0	206.8	199.1	199.1
22.5°	2319.3	1744.0	886.1	351.9	265.8	233.7	208.0	190.1	179.8	172.1	172.1
25°	2469.6	1790.2	752.6	290.2	240.2	208.0	184.9	167.0	155.4	150.3	147.7
27.5°	2609.6	1819.8	604.9	255.6	215.8	186.2	161.8	145.1	136.1	132.3	129.7
30°	2754.7	1827.5	462.3	232.4	195.2	164.4	141.3	128.4	120.7	115.6	115.6
32.5°	2895.9	1818.5	353.2	213.2	177.2	145.1	125.9	114.3	107.9	104.0	102.7
35°	3039.8	1777.4	286.4	196.5	159.2	127.1	111.7	102.7	98.9	93.7	93.7
37.5°	3196.5	1722.2	249.1	179.8	141.3	114.3	100.2	93.7	88.6	84.8	83.5
40°	3391.7	1657.9	228.6	165.7	124.6	102.7	89.9	83.5	79.6	75.8	74.5
42.5°	3622.8	1595.0	218.3	150.3	111.7	91.2	80.9	73.2	69.3	64.2	62.9
45°	3950.3	1580.9	206.8	133.6	100.2	82.2	70.6	62.9	57.8	53.9	52.7
47.5°	4476.8	1620.7	187.5	115.6	88.6	71.9	60.4	53.9	47.5	43.7	41.1
50°	4999.5	1610.4	168.2	100.2	78.3	61.6	51.4	44.9	38.5	34.7	33.4
52.5°	5284.6	1561.6	150.3	88.6	68.1	52.7	43.7	36.0	32.1	28.3	27.0
55°	5542.7	1542.4	132.3	77.1	57.8	46.2	36.0	29.5	27.0	23.1	21.8
57.5°	6048.7	1587.3	116.9	66.8	50.1	39.8	30.8	24.4	21.8	18.0	16.7
60°	6577.8	1592.4	100.2	57.8	43.7	33.4	24.4	19.3	16.7	12.8	11.6
62.5°	6853.9	1462.7	82.2	48.8	36.0	28.3	20.5	15.4	12.8	7.7	7.7
65°	6622.8	1182.8	69.3	39.8	28.3	21.8	15.4	11.6	7.7	3.9	1.3
67.5°	5861.2	841.2	57.8	32.1	20.5	15.4	11.6	7.7	1.3	0.0	0.0
70°	4291.9	480.3	44.9	23.1	15.4	10.3	7.7	3.9	0.0	0.0	0.0
72.5°	2637.8	256.8	33.4	15.4	11.6	7.7	6.4	2.6	0.0	0.0	0.0
75°	1000.4	123.3	20.5	10.3	9.0	6.4	3.9	1.3	0.0	0.0	0.0
77.5°	271.0	60.4	11.6	7.7	6.4	3.9	2.6	0.0	0.0	0.0	0.0
80°	70.6	28.3	7.7	5.1	3.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	24.4	12.8	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.3	5.1	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	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)