

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: P638189

Luminaire Tested: GWS-SA4E-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638189
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-SA4E-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25311.5 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

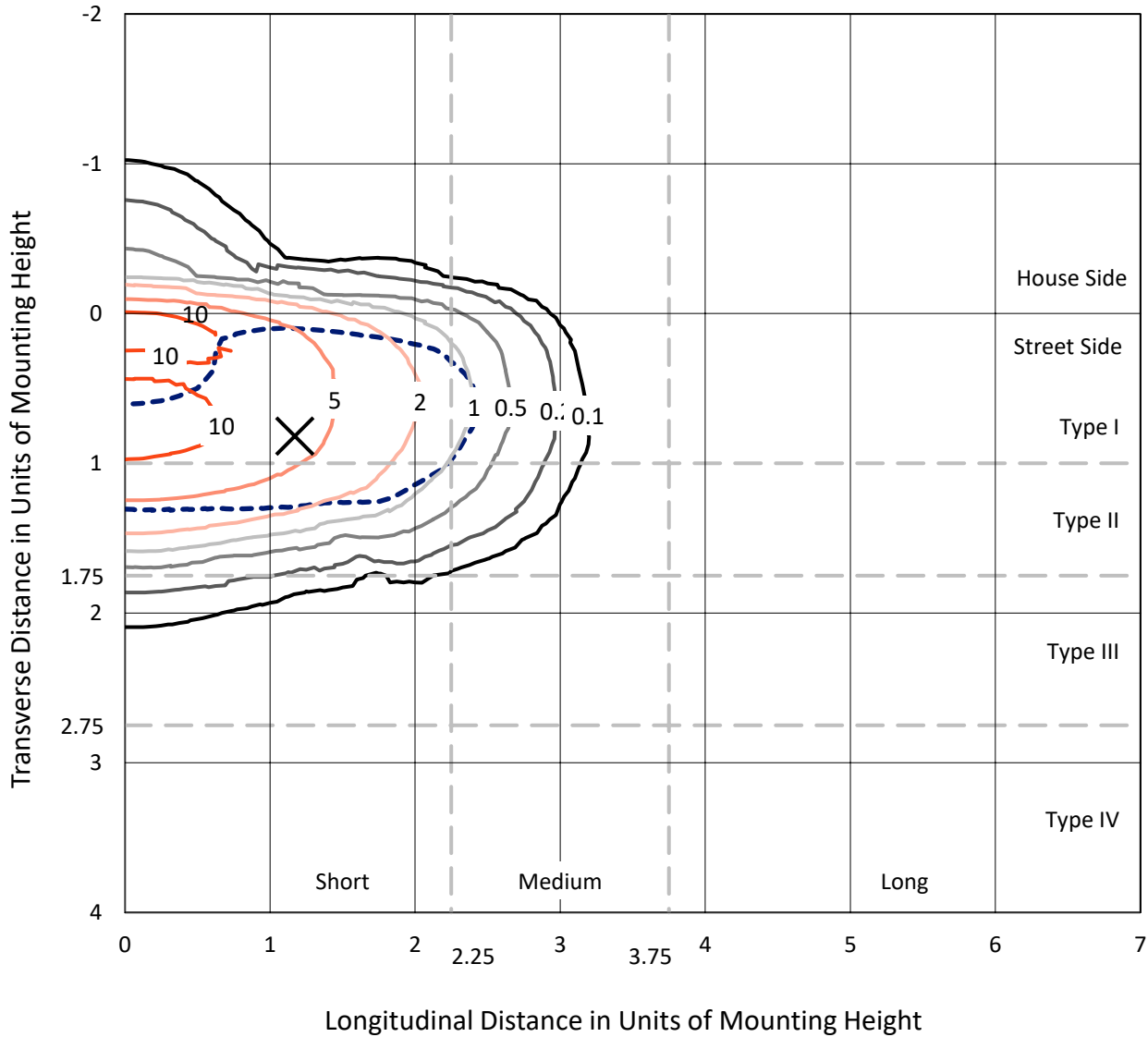
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

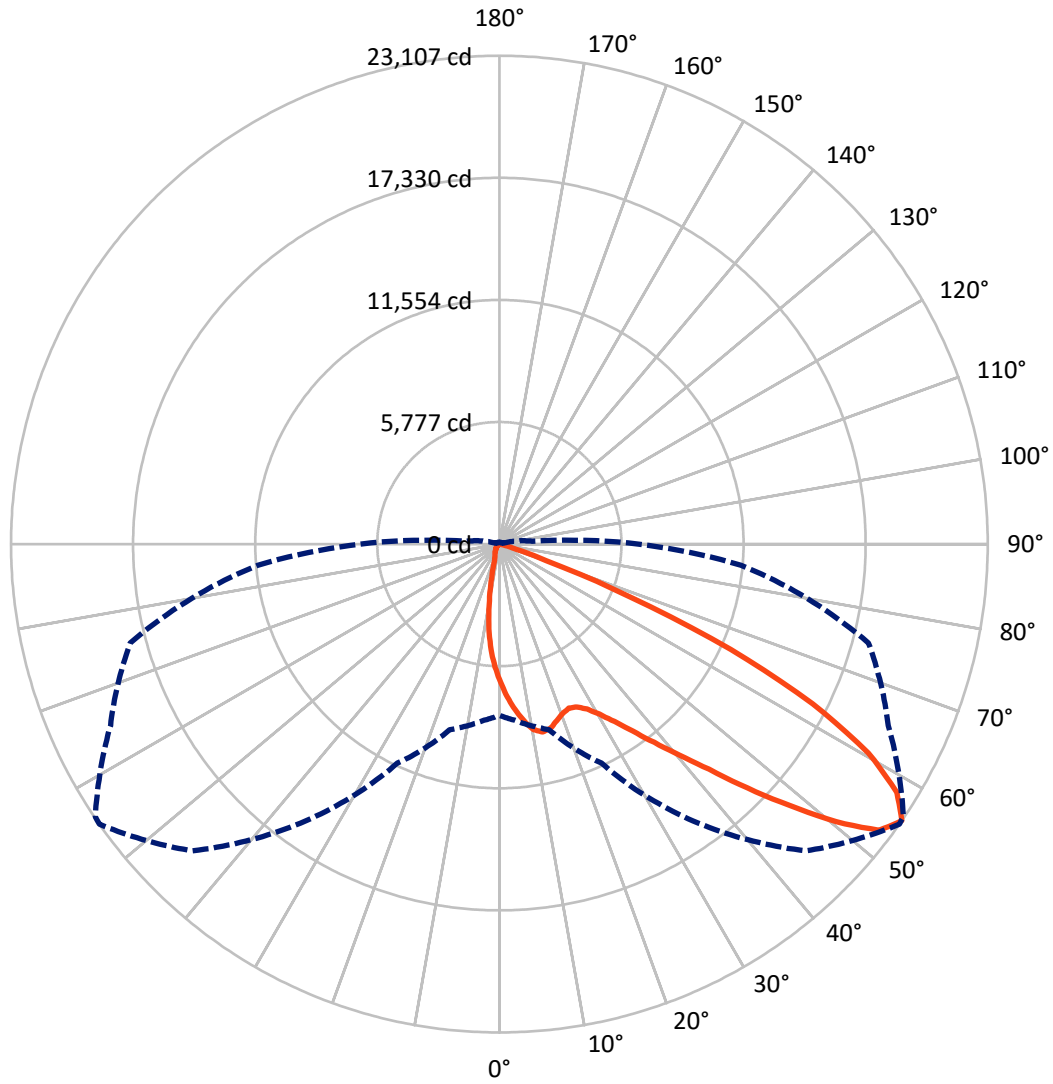
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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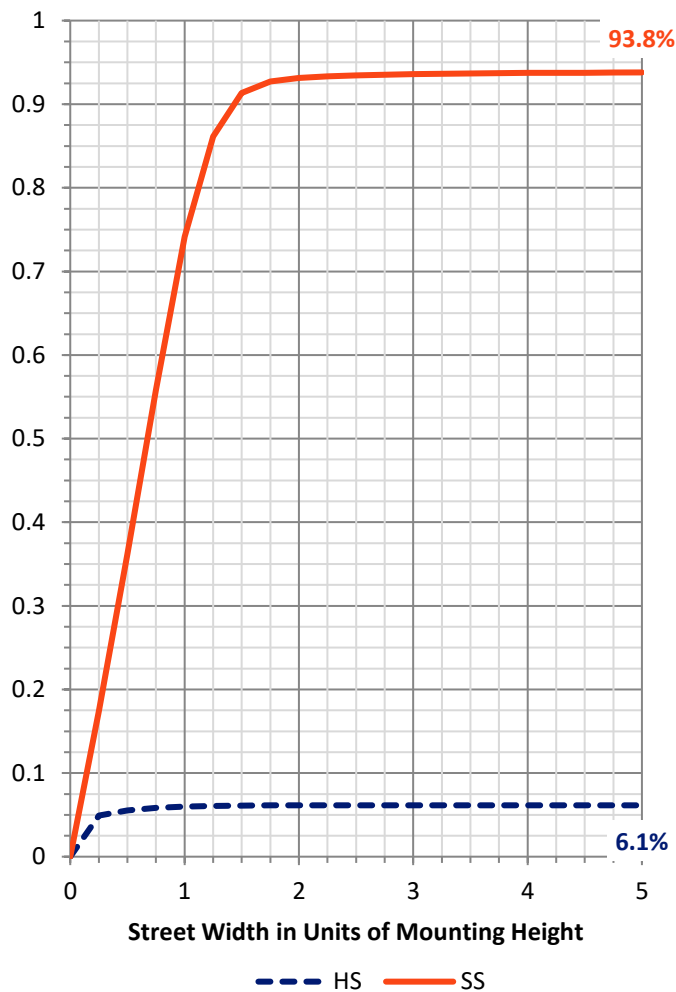
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1561.8	0.0	1561.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23749.7	0.0	23749.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	25311.5	0.0	25311.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.9	2.3
10°-20°	1393.2	5.5
20°-30°	2320.3	9.2
30°-40°	3953.9	15.6
40°-50°	6454.1	25.5
50°-60°	6757.1	26.7
60°-70°	3408.2	13.5
70°-80°	430.5	1.7
80°-90°	16.3	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°	25311.5	100.0
0°-180°	25311.5	100.0

Coefficient of Utilization

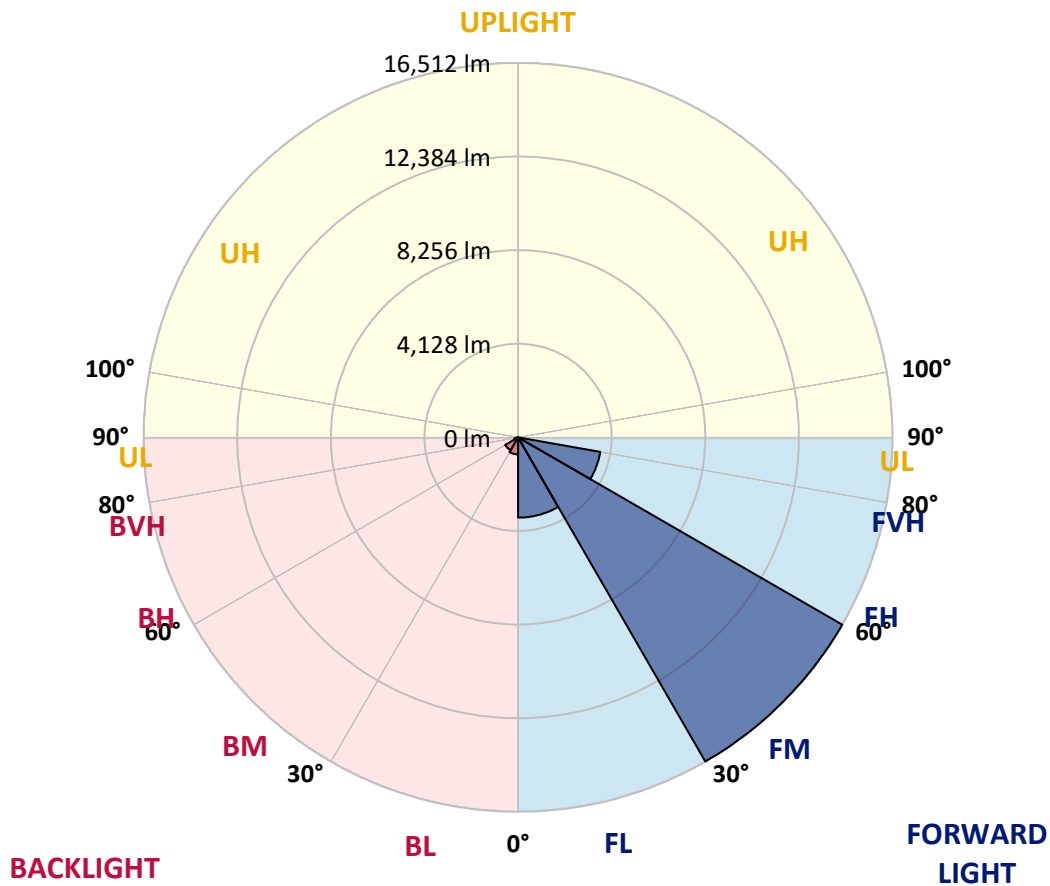


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3540.7	14.0			
FM (30°-60°)	16512.1	65.2			
FH (60°-80°)	3682.0	14.5			G2/5000
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	750.7	3.0	B2/1000		
BM (30°-60°)	653.0	2.6	B1/1000		
BH (60°-80°)	156.7	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0
2.5°	7623.1	7586.3	7642.5	7577.6	7467.3	7374.2	7253.1	7209.8	7015.0	6831.1	6653.7
5°	8549.2	8560.0	8542.7	8451.8	8296.0	8122.9	7878.4	7824.3	7484.6	7134.1	6755.4
7.5°	8778.5	8772.1	8808.8	8843.5	8817.5	8730.9	8464.8	8410.7	7988.8	7463.0	6911.2
10°	8071.0	8075.3	8151.0	8384.7	8674.7	8975.4	8934.3	8904.0	8490.8	7835.1	7084.3
12.5°	7071.3	7110.3	7190.3	7523.5	8014.7	8698.5	9122.6	9152.9	8951.6	8244.1	7287.7
15°	6638.5	6647.2	6712.1	6913.3	7279.0	8122.9	9042.5	9126.9	9336.8	8655.2	7508.4
17.5°	6627.7	6638.5	6666.7	6755.4	6993.4	7670.7	8785.0	8932.2	9626.8	9096.6	7772.4
20°	7034.5	7028.0	7008.6	6961.0	7064.8	7521.4	8547.0	8709.3	9784.7	9527.2	8038.5
22.5°	7772.4	7763.7	7677.2	7480.3	7395.9	7657.7	8430.2	8577.3	9879.9	9910.2	8257.1
25°	8622.8	8683.3	8521.1	8222.4	8014.7	8006.1	8534.0	8637.9	9962.1	10249.9	8406.4
27.5°	9555.3	9574.8	9436.3	9101.0	8800.2	8564.3	8834.8	8912.7	10053.0	10552.9	8490.8
30°	10578.8	10572.3	10414.4	10024.9	9659.2	9319.5	9341.1	9371.4	10265.1	10899.1	8583.8
32.5°	11857.6	11885.8	11604.5	11074.3	10635.1	10165.5	10003.3	10007.6	10648.1	11344.8	8724.4
35°	13595.2	13525.9	13153.8	12398.6	11649.9	11143.6	10866.6	10842.8	11238.8	11944.2	8969.0
37.5°	15250.5	15257.0	14867.5	14036.6	13091.0	12292.6	11900.9	11836.0	12069.7	12775.1	9375.8
40°	16399.5	16421.1	16258.8	15823.9	14822.0	13692.5	13117.0	13049.9	13147.3	13826.7	9908.0
42.5°	17007.5	17068.1	17113.5	17215.2	16455.7	15440.9	14555.9	14549.4	14447.7	15025.4	10524.7
45°	17031.3	17122.2	17399.1	18093.7	18180.3	17435.9	16473.0	16328.0	15936.4	16308.6	11076.5
47.5°	16090.0	16299.9	16888.5	18264.7	19173.4	19420.1	18465.9	18377.2	17278.0	17323.4	11489.8
50°	13895.9	14114.5	15198.5	17388.3	19424.4	20995.4	20653.5	20469.6	18398.8	17994.2	11688.9
52.5°	11645.6	11844.7	12580.3	15302.4	18383.7	21490.9	22497.0	22278.5	19405.0	18227.9	11606.6
55°	8103.4	8369.6	9088.0	11437.9	15986.2	20525.8	23107.2	23061.8	20303.0	18080.7	11479.0
57.5°	3972.7	4236.7	4952.9	7051.8	11842.5	17920.6	22174.6	22414.8	20839.6	17922.8	11375.1
60°	1659.6	1767.8	2014.5	3094.2	6625.6	13543.2	20069.3	20402.5	20510.7	17708.6	11364.3
62.5°	962.9	980.2	1006.2	1283.1	2577.1	7763.7	16648.3	17122.2	18781.8	17425.1	11193.3
65°	727.0	733.5	722.7	787.6	1064.6	2944.9	12028.6	12673.4	15676.7	16317.2	10518.2
67.5°	597.2	597.2	569.1	582.1	668.6	1103.5	6640.7	7540.8	11600.1	13411.2	8685.5
70°	476.0	486.9	473.9	456.6	478.2	610.2	2362.9	2929.8	6755.4	7919.5	5065.5
72.5°	361.4	361.4	383.0	370.0	354.9	383.0	824.4	926.1	2711.2	3302.0	1828.4
75°	279.1	287.8	302.9	289.9	268.3	227.2	396.0	419.8	817.9	768.1	409.0
77.5°	142.8	145.0	192.6	212.1	199.1	138.5	173.1	190.4	266.1	238.0	151.5
80°	86.6	90.9	108.2	166.6	132.0	73.6	71.4	75.7	125.5	108.2	62.8
82.5°	36.8	38.9	60.6	60.6	54.1	28.1	28.1	28.1	60.6	56.3	26.0
85°	0.0	0.0	10.8	8.7	8.7	10.8	10.8	10.8	15.1	21.6	13.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.5	6.5
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°	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0	6539.0
2.5°	6539.0	6400.5	6214.4	6045.7	5818.5	5690.8	5513.4	5368.4	5245.1	5206.1	5188.8
5°	6541.2	6303.2	5905.0	5506.9	5017.9	4632.7	4236.7	3923.0	3665.5	3583.3	3561.6
7.5°	6584.4	6233.9	5589.1	4866.4	4048.5	3373.4	2769.7	2228.7	1977.7	1893.3	1876.0
10°	6642.9	6175.5	5223.4	4098.2	2923.3	2055.6	1456.2	1110.0	945.6	854.7	867.7
12.5°	6718.6	6127.9	4818.8	3267.3	1934.4	1129.5	800.6	670.8	636.2	618.8	610.2
15°	6820.3	6071.6	4316.8	2442.9	1185.8	727.0	616.7	582.1	569.1	560.4	558.3
17.5°	6924.2	6006.7	3806.1	1718.1	787.6	603.7	553.9	536.6	528.0	521.5	519.3
20°	7034.5	5896.4	3206.8	1183.6	621.0	543.1	510.7	491.2	480.4	469.5	467.4
22.5°	7082.1	5718.9	2633.3	828.7	551.8	499.8	458.7	434.9	421.9	413.3	413.3
25°	7036.7	5431.1	2040.5	629.7	502.0	452.2	411.1	385.2	374.3	365.7	365.7
27.5°	6915.5	5061.1	1488.7	521.5	447.9	402.5	363.5	339.7	331.1	326.7	326.7
30°	6781.4	4593.8	1049.4	447.9	387.3	350.5	318.1	302.9	300.8	296.4	296.4
32.5°	6666.7	4156.7	722.7	393.8	341.9	305.1	283.5	277.0	279.1	274.8	277.0
35°	6603.9	3728.2	536.6	350.5	305.1	270.5	259.7	259.7	259.7	257.5	257.5
37.5°	6629.9	3306.3	437.1	320.2	272.6	246.7	235.9	240.2	244.5	244.5	244.5
40°	6759.7	2932.0	387.3	292.1	244.5	225.0	216.4	222.9	229.4	233.7	233.7
42.5°	6924.2	2629.0	350.5	268.3	225.0	203.4	199.1	205.6	212.1	216.4	216.4
45°	7028.0	2323.9	313.8	238.0	205.6	179.6	179.6	188.3	186.1	188.3	188.3
47.5°	7075.6	2081.6	277.0	205.6	175.3	155.8	158.0	162.3	158.0	162.3	162.3
50°	6958.8	1837.1	244.5	170.9	145.0	136.3	140.6	138.5	138.5	147.1	147.1
52.5°	6744.6	1655.3	216.4	145.0	123.3	121.2	125.5	116.8	119.0	119.0	116.8
55°	6586.6	1551.4	192.6	125.5	106.0	108.2	106.0	90.9	82.2	73.6	71.4
57.5°	6508.7	1510.3	175.3	112.5	95.2	95.2	86.6	62.8	47.6	36.8	32.5
60°	6491.4	1460.6	158.0	97.4	84.4	80.1	62.8	36.8	23.8	17.3	15.1
62.5°	6327.0	1339.4	142.8	77.9	73.6	64.9	38.9	21.6	13.0	8.7	6.5
65°	5788.2	1101.4	127.7	60.6	56.3	47.6	23.8	13.0	6.5	2.2	0.0
67.5°	4604.6	781.1	112.5	45.4	38.9	30.3	15.1	8.7	2.2	0.0	0.0
70°	2655.0	421.9	93.0	32.5	26.0	19.5	10.8	4.3	0.0	0.0	0.0
72.5°	887.2	196.9	71.4	21.6	19.5	15.1	6.5	2.2	0.0	0.0	0.0
75°	194.7	116.8	47.6	15.1	13.0	10.8	4.3	0.0	0.0	0.0	0.0
77.5°	73.6	82.2	23.8	10.8	8.7	6.5	2.2	0.0	0.0	0.0	0.0
80°	28.1	54.1	10.8	6.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	21.6	6.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	10.8	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	2.2	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)