

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: P636209

Luminaire Tested: GWS-SA3F-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636209
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-SA3F-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20223.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

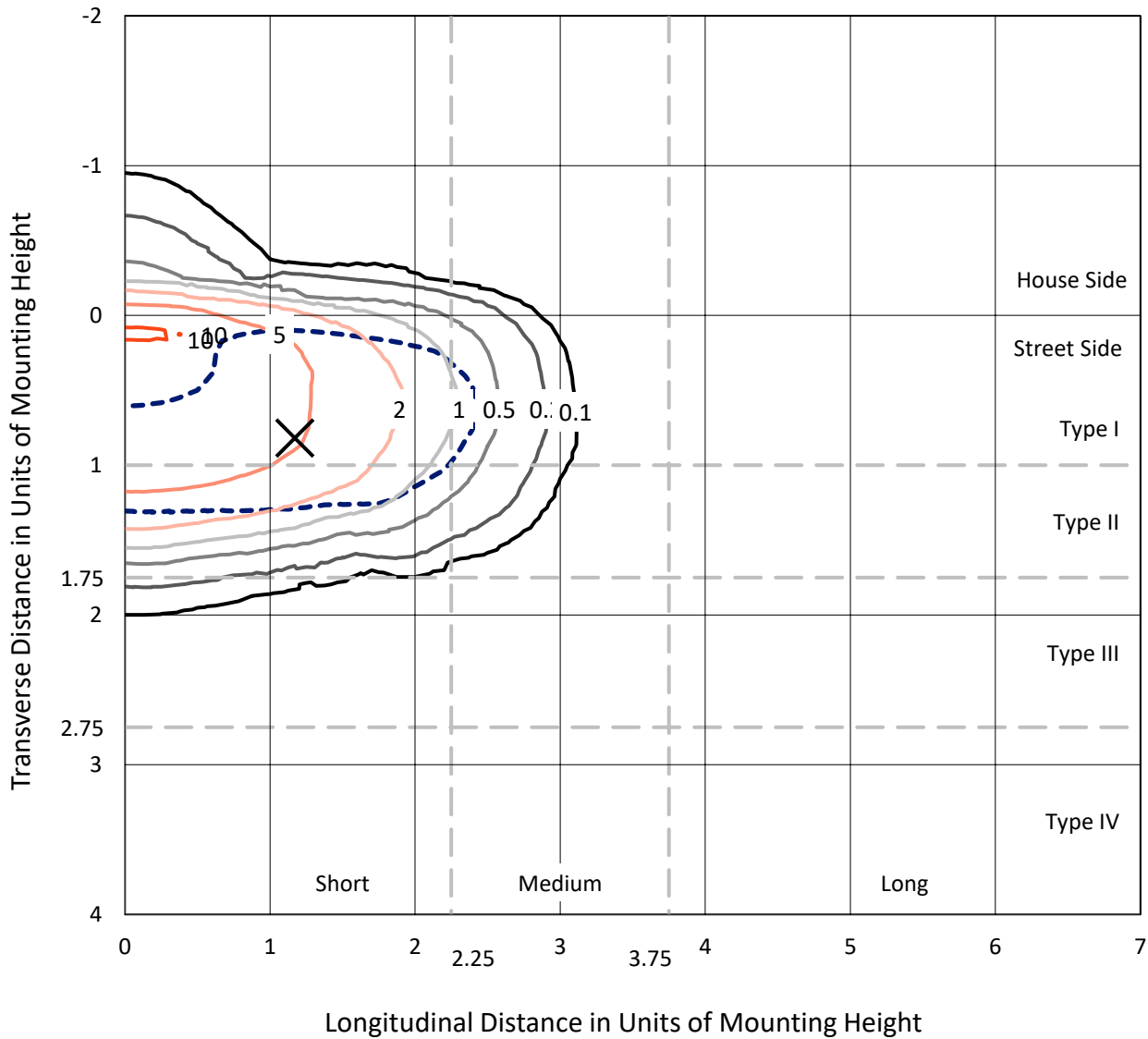
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

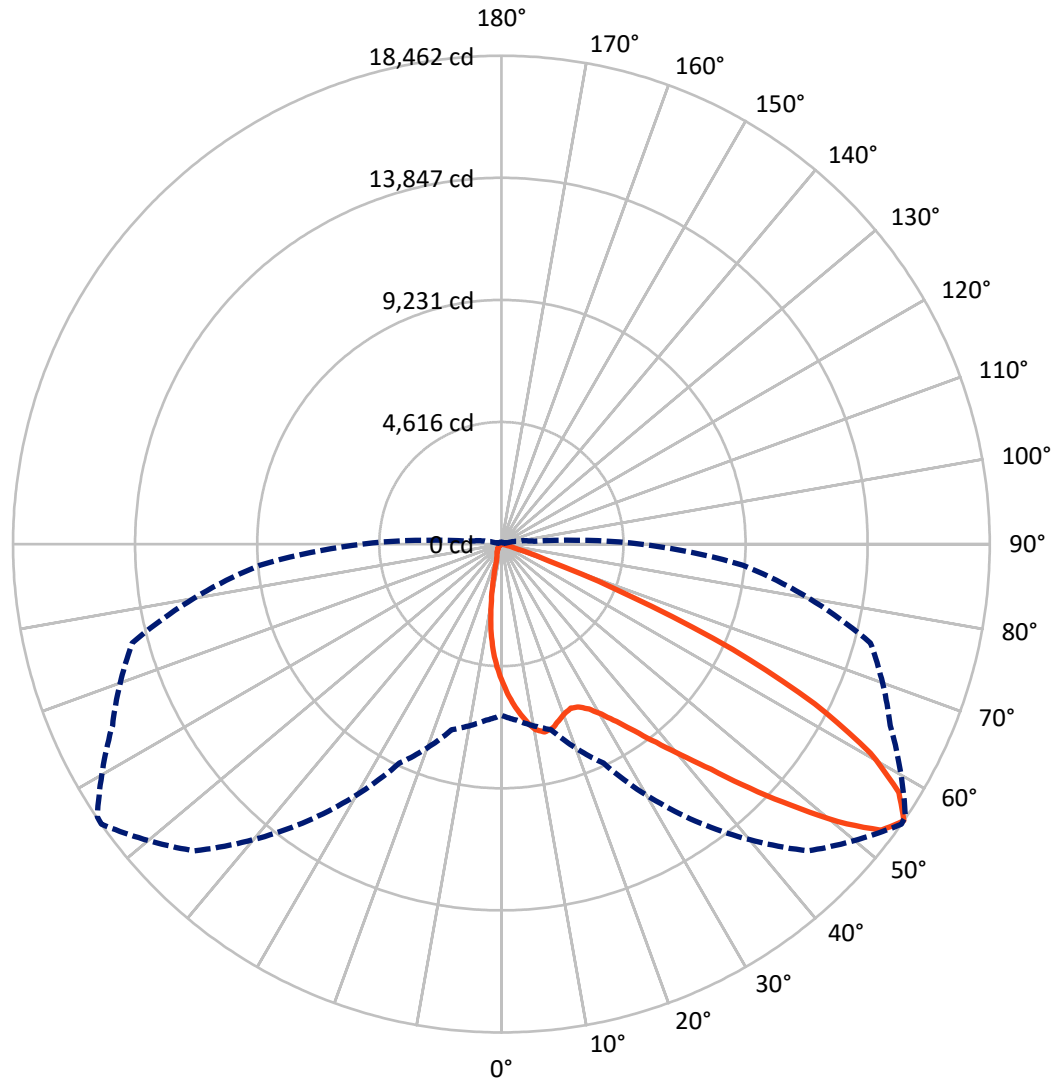
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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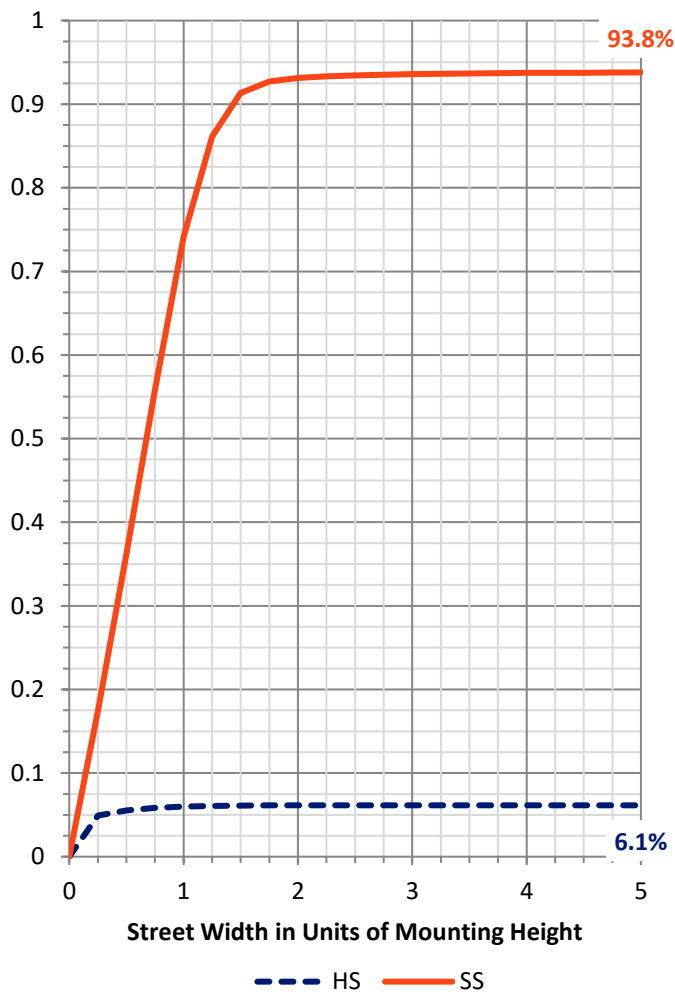
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.9	0.0	1247.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18975.3	0.0	18975.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	20223.2	0.0	20223.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	2.3
10°-20°	1113.2	5.5
20°-30°	1853.8	9.2
30°-40°	3159.0	15.6
40°-50°	5156.7	25.5
50°-60°	5398.8	26.7
60°-70°	2723.0	13.5
70°-80°	344.0	1.7
80°-90°	13.1	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°	20223.2	100.0
0°-180°	20223.2	100.0

Coefficient of Utilization



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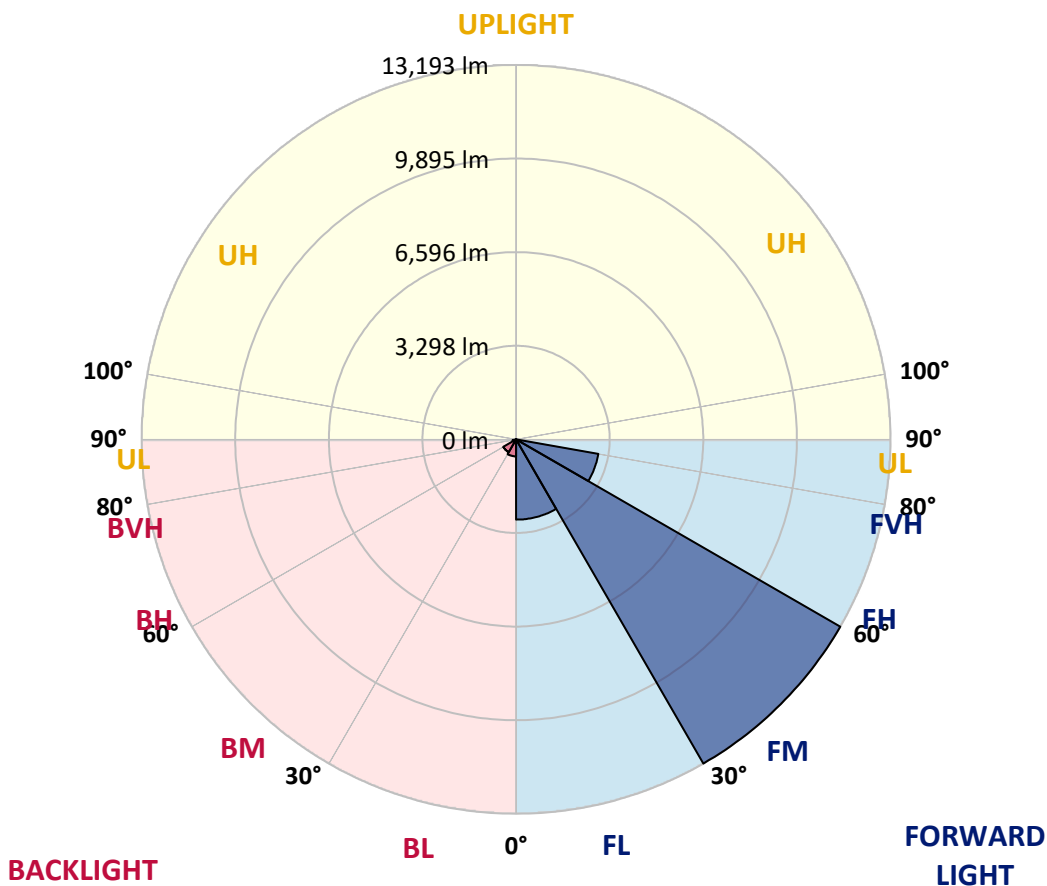
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.9	14.0			
FM (30°-60°)	13192.7	65.2			
FH (60°-80°)	2941.8	14.5			G2/5000
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	599.8	3.0	B2/1000		
BM (30°-60°)	521.7	2.6	B1/1000		
BH (60°-80°)	125.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5
2.5°	6090.6	6061.2	6106.2	6054.3	5966.2	5891.8	5795.0	5760.4	5604.8	5457.9	5316.1
5°	6830.6	6839.2	6825.4	6752.8	6628.3	6490.0	6294.6	6251.4	5980.0	5699.9	5397.4
7.5°	7013.8	7008.6	7038.0	7065.7	7044.9	6975.8	6763.1	6719.9	6382.8	5962.7	5521.8
10°	6448.5	6452.0	6512.5	6699.2	6930.8	7171.1	7138.3	7114.1	6783.9	6260.1	5660.2
12.5°	5649.8	5680.9	5744.9	6011.1	6403.5	6949.9	7288.7	7312.9	7152.1	6586.8	5822.7
15°	5304.0	5310.9	5362.8	5523.6	5815.7	6490.0	7224.7	7292.2	7459.9	6915.3	5999.0
17.5°	5295.4	5304.0	5326.5	5397.4	5587.5	6128.7	7019.0	7136.6	7691.5	7268.0	6209.9
20°	5620.4	5615.2	5599.6	5561.6	5644.6	6009.4	6828.8	6958.5	7817.7	7612.0	6422.6
22.5°	6209.9	6203.0	6133.8	5976.5	5909.1	6118.3	6735.5	6853.0	7893.8	7918.0	6597.2
25°	6889.3	6937.7	6808.1	6569.5	6403.5	6396.6	6818.5	6901.4	7959.5	8189.4	6716.5
27.5°	7634.5	7650.0	7539.4	7271.4	7031.1	6842.7	7058.8	7121.0	8032.1	8431.4	6783.9
30°	8452.2	8447.0	8320.8	8009.6	7717.4	7446.0	7463.3	7487.5	8201.5	8708.1	6858.2
32.5°	9473.9	9496.4	9271.7	8848.1	8497.1	8122.0	7992.3	7995.8	8507.5	9064.2	6970.6
35°	10862.2	10806.8	10509.5	9906.1	9308.0	8903.4	8682.1	8663.1	8979.5	9543.1	7166.0
37.5°	12184.7	12189.9	11878.7	11214.8	10459.4	9821.4	9508.5	9456.6	9643.4	10206.9	7491.0
40°	13102.7	13120.0	12990.3	12642.9	11842.4	10940.0	10480.1	10426.5	10504.3	11047.2	7916.3
42.5°	13588.5	13636.9	13673.2	13754.5	13147.7	12336.9	11629.8	11624.6	11543.3	12004.9	8409.0
45°	13607.5	13680.1	13901.4	14456.4	14525.5	13930.8	13161.5	13045.7	12732.8	13030.1	8849.8
47.5°	12855.5	13023.2	13493.4	14593.0	15319.1	15516.1	14753.7	14682.9	13804.6	13840.9	9180.0
50°	11102.5	11277.1	12143.2	13892.8	15519.6	16774.7	16501.6	16354.6	14700.1	14376.9	9339.1
52.5°	9304.5	9463.6	10051.4	12226.2	14688.0	17170.6	17974.5	17799.9	15504.0	14563.6	9273.4
55°	6474.4	6687.1	7261.0	9138.5	12772.5	16399.6	18462.1	18425.8	16221.5	14446.0	9171.4
57.5°	3174.1	3385.0	3957.3	5634.2	9461.8	14318.1	17716.9	17908.8	16650.3	14319.8	9088.4
60°	1326.0	1412.4	1609.5	2472.2	5293.6	10820.7	16034.8	16301.0	16387.5	14148.7	9079.8
62.5°	769.3	783.2	803.9	1025.2	2059.0	6203.0	13301.5	13680.1	15006.1	13922.2	8943.2
65°	580.9	586.1	577.4	629.3	850.6	2352.9	9610.5	10125.7	12525.3	13037.0	8403.8
67.5°	477.2	477.2	454.7	465.1	534.2	881.7	5305.7	6024.9	9268.2	10715.2	6939.5
70°	380.3	389.0	378.6	364.8	382.1	487.5	1887.9	2340.8	5397.4	6327.5	4047.2
72.5°	288.7	288.7	306.0	295.6	283.5	306.0	658.7	739.9	2166.2	2638.2	1460.9
75°	223.0	229.9	242.0	231.7	214.4	181.5	316.4	335.4	653.5	613.7	326.7
77.5°	114.1	115.8	153.9	169.4	159.1	110.6	138.3	152.1	212.6	190.2	121.0
80°	69.2	72.6	86.4	133.1	105.5	58.8	57.1	60.5	100.3	86.4	50.1
82.5°	29.4	31.1	48.4	48.4	43.2	22.5	22.5	22.5	48.4	44.9	20.7
85°	0.0	0.0	8.6	6.9	6.9	8.6	8.6	8.6	12.1	17.3	10.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2
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°	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5	5224.5
2.5°	5224.5	5113.8	4965.2	4830.3	4648.8	4546.8	4405.0	4289.2	4190.7	4159.5	4145.7
5°	5226.2	5036.0	4717.9	4399.8	4009.1	3701.4	3385.0	3134.3	2928.6	2862.9	2845.6
7.5°	5260.8	4980.7	4465.5	3888.1	3234.6	2695.2	2212.9	1780.7	1580.1	1512.7	1498.9
10°	5307.5	4934.0	4173.4	3274.4	2335.6	1642.4	1163.5	886.9	755.5	682.9	693.3
12.5°	5368.0	4896.0	3850.1	2610.5	1545.6	902.4	639.7	535.9	508.3	494.4	487.5
15°	5449.2	4851.1	3449.0	1951.8	947.4	580.9	492.7	465.1	454.7	447.8	446.0
17.5°	5532.2	4799.2	3041.0	1372.7	629.3	482.3	442.6	428.7	421.8	416.6	414.9
20°	5620.4	4711.0	2562.1	945.7	496.2	433.9	408.0	392.4	383.8	375.2	373.4
22.5°	5658.4	4569.3	2104.0	662.1	440.8	399.4	366.5	347.5	337.1	330.2	330.2
25°	5622.1	4339.3	1630.3	503.1	401.1	361.3	328.5	307.7	299.1	292.2	292.2
27.5°	5525.3	4043.7	1189.4	416.6	357.9	321.6	290.4	271.4	264.5	261.1	261.1
30°	5418.1	3670.3	838.5	357.9	309.5	280.1	254.1	242.0	240.3	236.8	236.8
32.5°	5326.5	3321.1	577.4	314.6	273.2	243.8	226.5	221.3	223.0	219.6	221.3
35°	5276.4	2978.8	428.7	280.1	243.8	216.1	207.5	207.5	207.5	205.7	205.7
37.5°	5297.1	2641.6	349.2	255.9	217.8	197.1	188.4	191.9	195.4	195.4	195.4
40°	5400.8	2342.5	309.5	233.4	195.4	179.8	172.9	178.1	183.3	186.7	186.7
42.5°	5532.2	2100.5	280.1	214.4	179.8	162.5	159.1	164.2	169.4	172.9	172.9
45°	5615.2	1856.8	250.7	190.2	164.2	143.5	143.5	150.4	148.7	150.4	150.4
47.5°	5653.2	1663.1	221.3	164.2	140.0	124.5	126.2	129.7	126.2	129.7	129.7
50°	5559.9	1467.8	195.4	136.6	115.8	108.9	112.4	110.6	110.6	117.6	117.6
52.5°	5388.7	1322.5	172.9	115.8	98.5	96.8	100.3	93.4	95.1	95.1	93.4
55°	5262.5	1239.6	153.9	100.3	84.7	86.4	84.7	72.6	65.7	58.8	57.1
57.5°	5200.3	1206.7	140.0	89.9	76.1	76.1	69.2	50.1	38.0	29.4	25.9
60°	5186.5	1167.0	126.2	77.8	67.4	64.0	50.1	29.4	19.0	13.8	12.1
62.5°	5055.1	1070.1	114.1	62.2	58.8	51.9	31.1	17.3	10.4	6.9	5.2
65°	4624.6	880.0	102.0	48.4	44.9	38.0	19.0	10.4	5.2	1.7	0.0
67.5°	3678.9	624.1	89.9	36.3	31.1	24.2	12.1	6.9	1.7	0.0	0.0
70°	2121.3	337.1	74.3	25.9	20.7	15.6	8.6	3.5	0.0	0.0	0.0
72.5°	708.8	157.3	57.1	17.3	15.6	12.1	5.2	1.7	0.0	0.0	0.0
75°	155.6	93.4	38.0	12.1	10.4	8.6	3.5	0.0	0.0	0.0	0.0
77.5°	58.8	65.7	19.0	8.6	6.9	5.2	1.7	0.0	0.0	0.0	0.0
80°	22.5	43.2	8.6	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	17.3	5.2	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	8.6	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.7	1.7	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)