

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: P637639

Luminaire Tested: GWS-SA4D-730-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637639
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-SA4D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18700.7 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

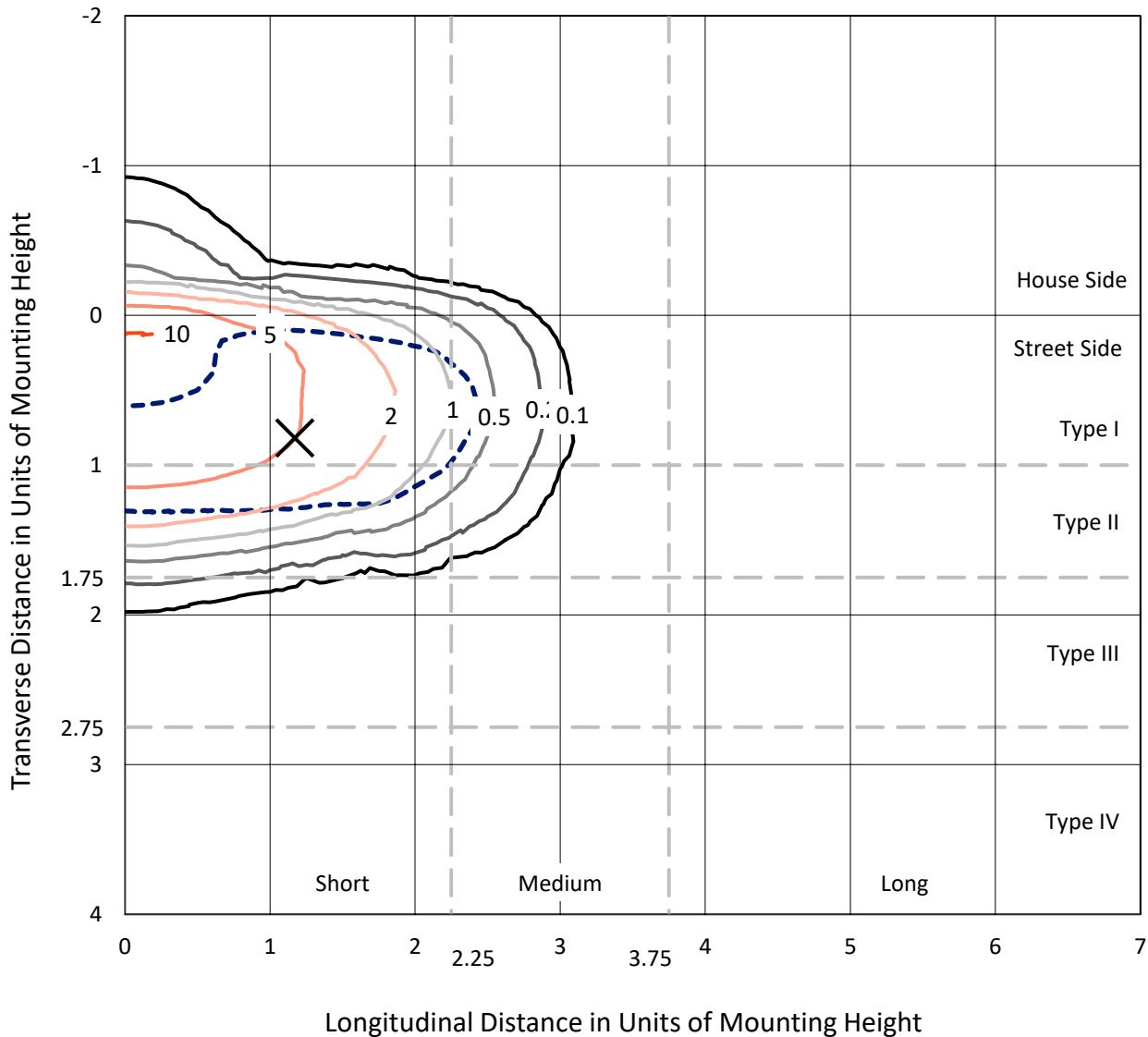
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

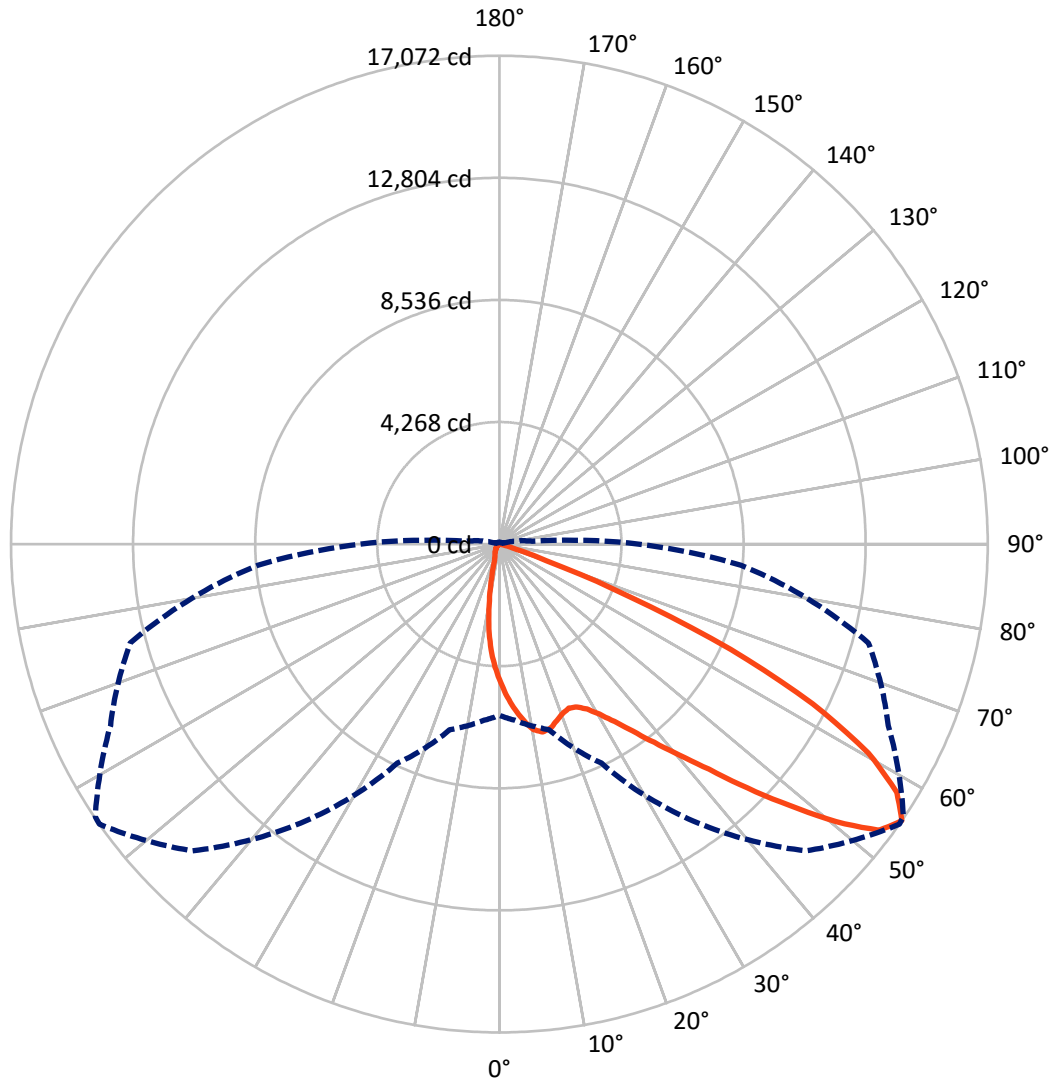
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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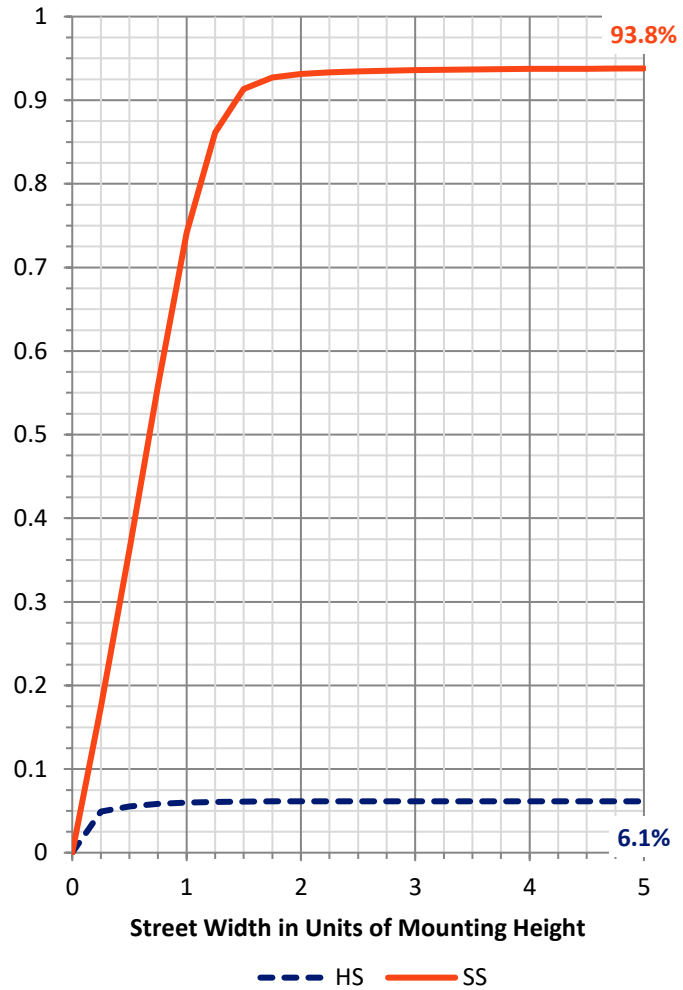
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.9	0.0	1153.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17546.8	0.0	17546.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	18700.7	0.0	18700.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	2.3
10°-20°	1029.4	5.5
20°-30°	1714.3	9.2
30°-40°	2921.2	15.6
40°-50°	4768.4	25.5
50°-60°	4992.3	26.7
60°-70°	2518.0	13.5
70°-80°	318.1	1.7
80°-90°	12.1	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°	18700.7	100.0
0°-180°	18700.7	100.0

Coefficient of Utilization



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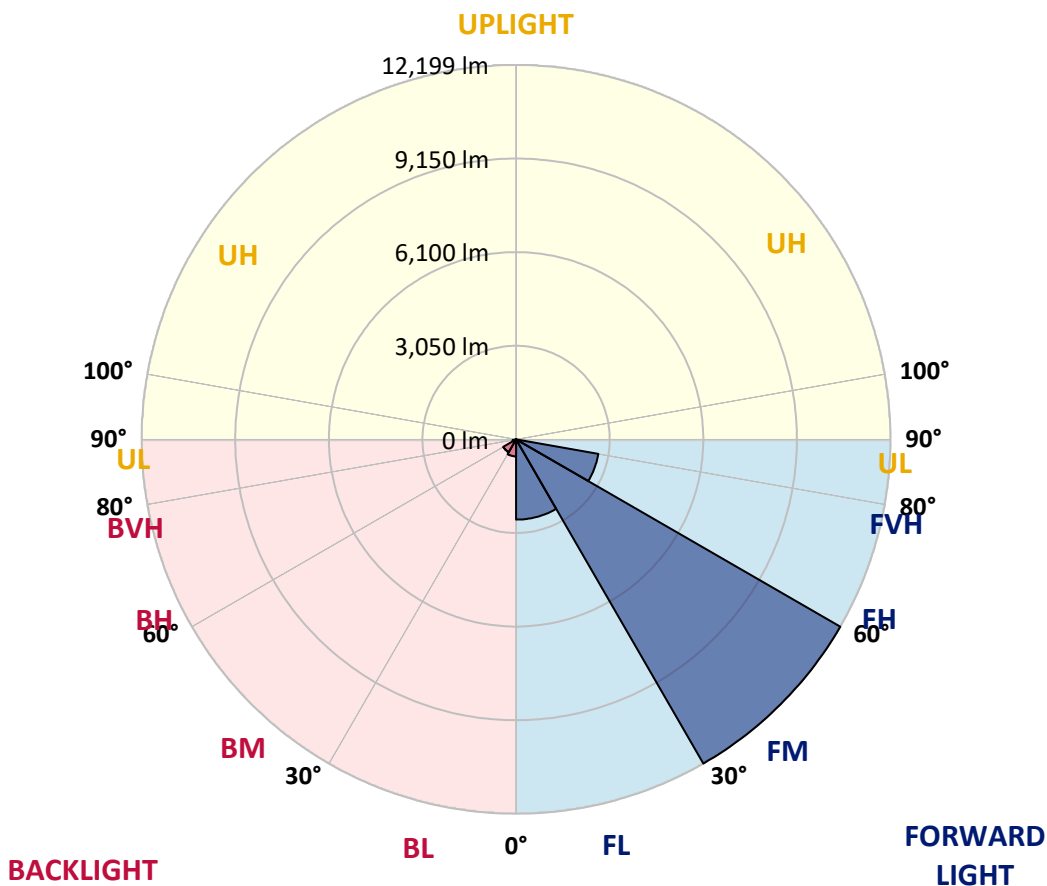
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.0	14.0			
FM (30°-60°)	12199.5	65.2			
FH (60°-80°)	2720.3	14.5			G2/5000
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	554.6	3.0	B2/1000		
BM (30°-60°)	482.5	2.6	B1/1000		
BH (60°-80°)	115.8	0.6	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: 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°	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2
2.5°	5632.1	5604.9	5646.5	5598.5	5517.0	5448.3	5358.7	5326.8	5182.9	5047.0	4915.9
5°	6316.3	6324.3	6311.5	6244.4	6129.3	6001.4	5820.7	5780.8	5529.8	5270.8	4991.0
7.5°	6485.8	6481.0	6508.2	6533.7	6514.6	6450.6	6254.0	6214.0	5902.3	5513.8	5106.1
10°	5963.0	5966.2	6022.2	6194.8	6409.0	6631.3	6600.9	6578.5	6273.2	5788.8	5234.0
12.5°	5224.4	5253.2	5312.4	5558.6	5921.5	6426.6	6740.0	6762.4	6613.7	6090.9	5384.3
15°	4904.7	4911.1	4959.1	5107.7	5377.9	6001.4	6680.8	6743.2	6898.2	6394.7	5547.4
17.5°	4896.7	4904.7	4925.5	4991.0	5166.9	5667.3	6490.6	6599.3	7112.5	6720.8	5742.4
20°	5197.3	5192.5	5178.1	5142.9	5219.6	5557.0	6314.7	6434.6	7229.2	7038.9	5939.0
22.5°	5742.4	5736.0	5672.1	5526.6	5464.2	5657.7	6228.4	6337.1	7299.5	7321.9	6100.5
25°	6370.7	6415.4	6295.5	6074.9	5921.5	5915.1	6305.1	6381.9	7360.3	7572.9	6210.8
27.5°	7059.7	7074.1	6971.8	6724.0	6501.8	6327.5	6527.3	6584.9	7427.4	7796.7	6273.2
30°	7815.9	7811.1	7694.4	7406.6	7136.4	6885.5	6901.4	6923.8	7584.1	8052.5	6341.9
32.5°	8760.7	8781.5	8573.6	8182.0	7857.4	7510.5	7390.6	7393.8	7867.0	8381.8	6445.8
35°	10044.4	9993.3	9718.3	9160.4	8607.2	8233.1	8028.5	8010.9	8303.5	8824.6	6626.5
37.5°	11267.4	11272.2	10984.4	10370.5	9671.9	9082.0	8792.7	8744.7	8917.4	9438.5	6927.0
40°	12116.3	12132.3	12012.4	11691.0	10950.9	10116.4	9691.1	9641.5	9713.5	10215.5	7320.3
42.5°	12565.5	12610.3	12643.8	12719.0	12157.8	11408.1	10754.2	10749.4	10674.3	11101.1	7775.9
45°	12583.1	12650.2	12854.9	13368.0	13432.0	12882.0	12170.6	12063.5	11774.2	12049.1	8183.6
47.5°	11887.7	12042.7	12477.6	13494.3	14165.8	14348.0	13643.0	13577.5	12765.3	12798.9	8488.9
50°	10266.6	10428.1	11229.0	12846.9	14351.2	15511.8	15259.3	15123.4	13593.4	13294.5	8636.0
52.5°	8604.0	8751.1	9294.6	11305.8	13582.3	15877.9	16621.3	16459.9	14336.8	13467.2	8575.2
55°	5987.0	6183.6	6714.4	8450.5	11810.9	15164.9	17072.1	17038.6	15000.3	13358.4	8480.9
57.5°	2935.1	3130.2	3659.3	5210.0	8749.5	13240.1	16383.1	16560.6	15396.7	13241.7	8404.2
60°	1226.2	1306.1	1488.4	2286.1	4895.1	10006.0	14827.6	15073.8	15153.7	13083.5	8396.2
62.5°	711.4	724.2	743.4	948.0	1904.0	5736.0	12300.1	12650.2	13876.4	12874.0	8269.9
65°	537.2	541.9	534.0	581.9	786.5	2175.8	8887.0	9363.4	11582.3	12055.5	7771.1
67.5°	441.2	441.2	420.4	430.0	494.0	815.3	4906.3	5571.3	8570.4	9908.5	6417.0
70°	351.7	359.7	350.1	337.3	353.3	450.8	1745.7	2164.6	4991.0	5851.1	3742.5
72.5°	267.0	267.0	283.0	273.4	262.2	283.0	609.1	684.2	2003.1	2439.6	1350.9
75°	206.2	212.6	223.8	214.2	198.2	167.9	292.6	310.1	604.3	567.5	302.1
77.5°	105.5	107.1	142.3	156.7	147.1	102.3	127.9	140.7	196.6	175.9	111.9
80°	63.9	67.1	79.9	123.1	97.5	54.4	52.8	56.0	92.7	79.9	46.4
82.5°	27.2	28.8	44.8	44.8	40.0	20.8	20.8	20.8	44.8	41.6	19.2
85°	0.0	0.0	8.0	6.4	6.4	8.0	8.0	8.0	11.2	16.0	9.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8
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°	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2
2.5°	4831.2	4728.9	4591.4	4466.7	4298.8	4204.5	4073.4	3966.3	3875.2	3846.4	3833.6
5°	4832.8	4656.9	4362.8	4068.6	3707.3	3422.7	3130.2	2898.4	2708.1	2647.4	2631.4
7.5°	4864.7	4605.8	4129.4	3595.4	2991.1	2492.3	2046.3	1646.6	1461.2	1398.8	1386.0
10°	4907.9	4562.6	3859.2	3027.9	2159.8	1518.7	1075.9	820.1	698.6	631.5	641.1
12.5°	4963.9	4527.4	3560.2	2414.0	1429.2	834.5	591.5	495.6	470.0	457.2	450.8
15°	5039.0	4485.9	3189.3	1804.9	876.1	537.2	455.6	430.0	420.4	414.1	412.5
17.5°	5115.7	4437.9	2812.1	1269.3	581.9	446.0	409.3	396.5	390.1	385.3	383.7
20°	5197.3	4356.4	2369.2	874.5	458.8	401.3	377.3	362.9	354.9	346.9	345.3
22.5°	5232.4	4225.3	1945.6	612.3	407.7	369.3	338.9	321.3	311.7	305.3	305.3
25°	5198.9	4012.6	1507.5	465.2	370.9	334.1	303.7	284.6	276.6	270.2	270.2
27.5°	5109.3	3739.3	1099.9	385.3	330.9	297.4	268.6	251.0	244.6	241.4	241.4
30°	5010.2	3394.0	775.4	330.9	286.2	259.0	235.0	223.8	222.2	219.0	219.0
32.5°	4925.5	3071.0	534.0	291.0	252.6	225.4	209.4	204.6	206.2	203.0	204.6
35°	4879.1	2754.5	396.5	259.0	225.4	199.8	191.8	191.8	191.8	190.2	190.2
37.5°	4898.3	2442.8	322.9	236.6	201.4	182.2	174.3	177.5	180.6	180.6	180.6
40°	4994.2	2166.2	286.2	215.8	180.6	166.3	159.9	164.7	169.5	172.7	172.7
42.5°	5115.7	1942.4	259.0	198.2	166.3	150.3	147.1	151.9	156.7	159.9	159.9
45°	5192.5	1717.0	231.8	175.9	151.9	132.7	132.7	139.1	137.5	139.1	139.1
47.5°	5227.6	1537.9	204.6	151.9	129.5	115.1	116.7	119.9	116.7	119.9	119.9
50°	5141.3	1357.3	180.6	126.3	107.1	100.7	103.9	102.3	102.3	108.7	108.7
52.5°	4983.0	1223.0	159.9	107.1	91.1	89.5	92.7	86.3	87.9	87.9	86.3
55°	4866.3	1146.2	142.3	92.7	78.3	79.9	78.3	67.1	60.7	54.4	52.8
57.5°	4808.8	1115.9	129.5	83.1	70.3	70.3	63.9	46.4	35.2	27.2	24.0
60°	4796.0	1079.1	116.7	71.9	62.3	59.2	46.4	27.2	17.6	12.8	11.2
62.5°	4674.5	989.6	105.5	57.6	54.4	48.0	28.8	16.0	9.6	6.4	4.8
65°	4276.4	813.7	94.3	44.8	41.6	35.2	17.6	9.6	4.8	1.6	0.0
67.5°	3402.0	577.1	83.1	33.6	28.8	22.4	11.2	6.4	1.6	0.0	0.0
70°	1961.6	311.7	68.7	24.0	19.2	14.4	8.0	3.2	0.0	0.0	0.0
72.5°	655.5	145.5	52.8	16.0	14.4	11.2	4.8	1.6	0.0	0.0	0.0
75°	143.9	86.3	35.2	11.2	9.6	8.0	3.2	0.0	0.0	0.0	0.0
77.5°	54.4	60.7	17.6	8.0	6.4	4.8	1.6	0.0	0.0	0.0	0.0
80°	20.8	40.0	8.0	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	11.2	16.0	4.8	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	8.0	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	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)