

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: P643139

Luminaire Tested: GWS-SA6E-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643139
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-SAGE-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37024.9 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

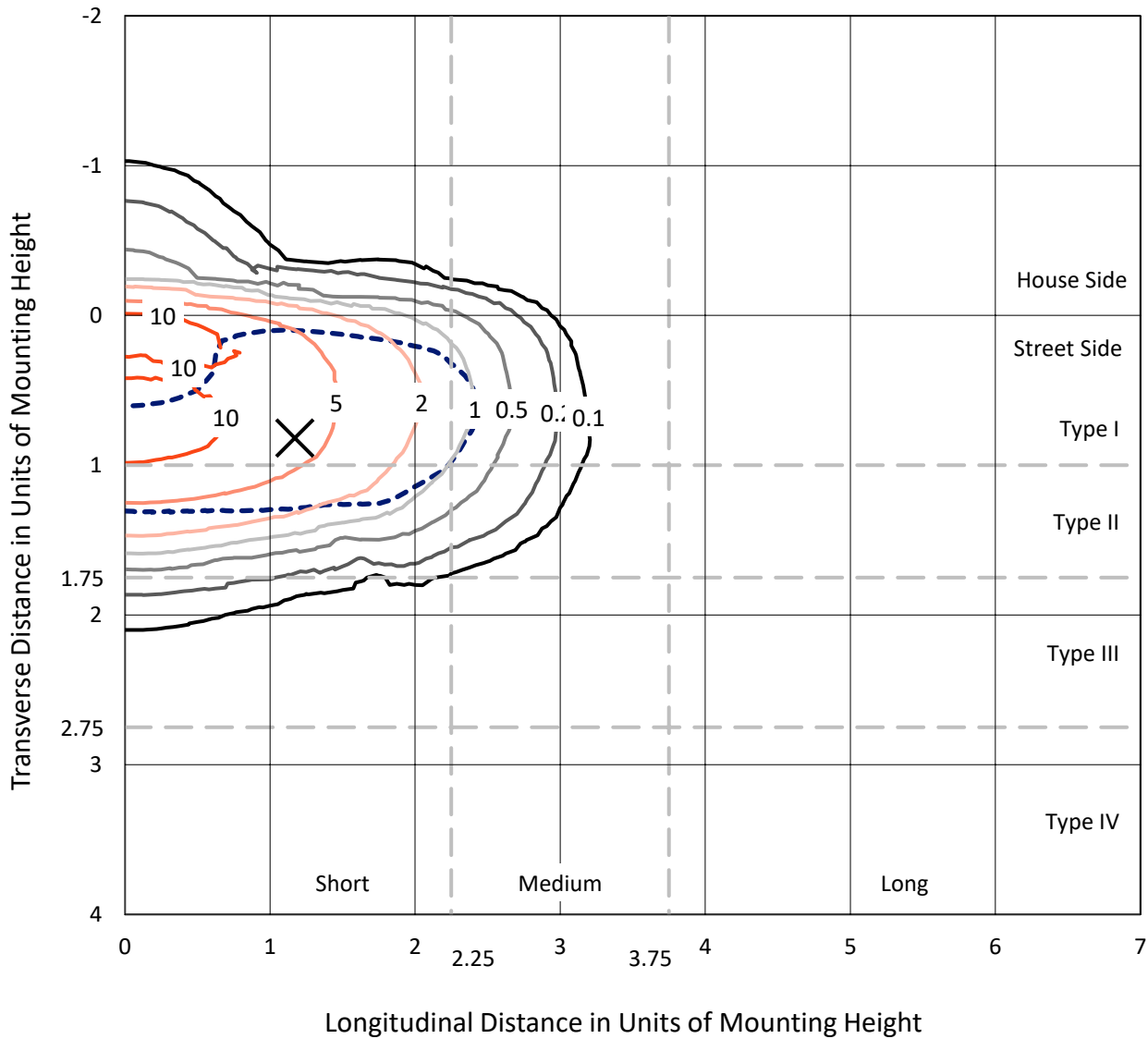
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643139
 CATALOG NUMBER: GWS-SA6E-735-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

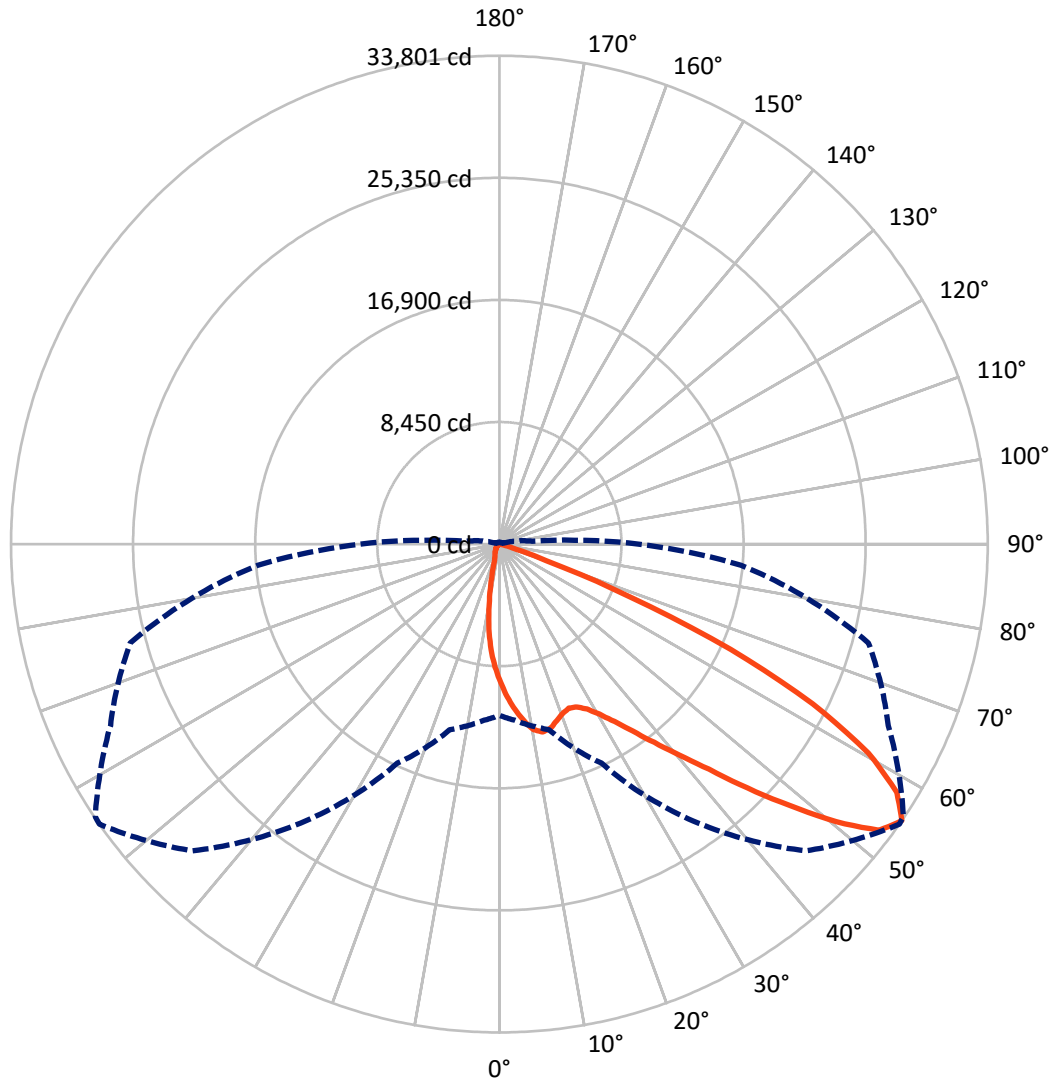
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P643139
CATALOG NUMBER: GWS-SA6E-735-U-AFL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P643139

CATALOG NUMBER: GWS-SA6E-735-U-AFL-W-HSS

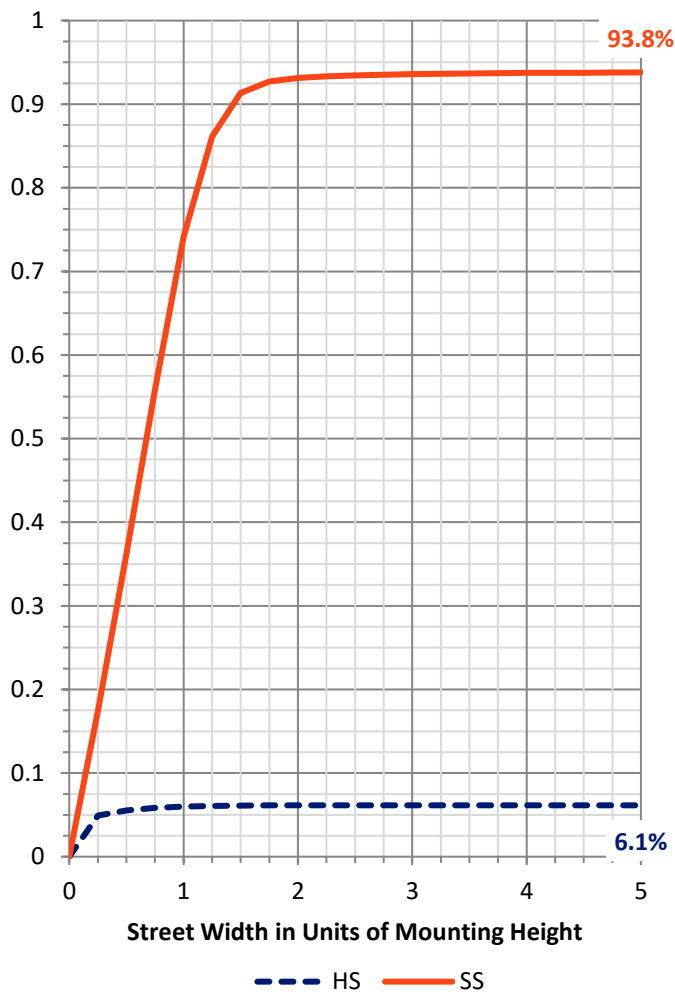
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2284.6	0.0	2284.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	34740.3	0.0	34740.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	37024.9	0.0	37024.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.3	2.3
10°-20°	2038.0	5.5
20°-30°	3394.0	9.2
30°-40°	5783.6	15.6
40°-50°	9440.9	25.5
50°-60°	9884.1	26.7
60°-70°	4985.4	13.5
70°-80°	629.7	1.7
80°-90°	23.9	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°	37024.9	100.0
0°-180°	37024.9	100.0

Coefficient of Utilization



REPORT NUMBER: P643139

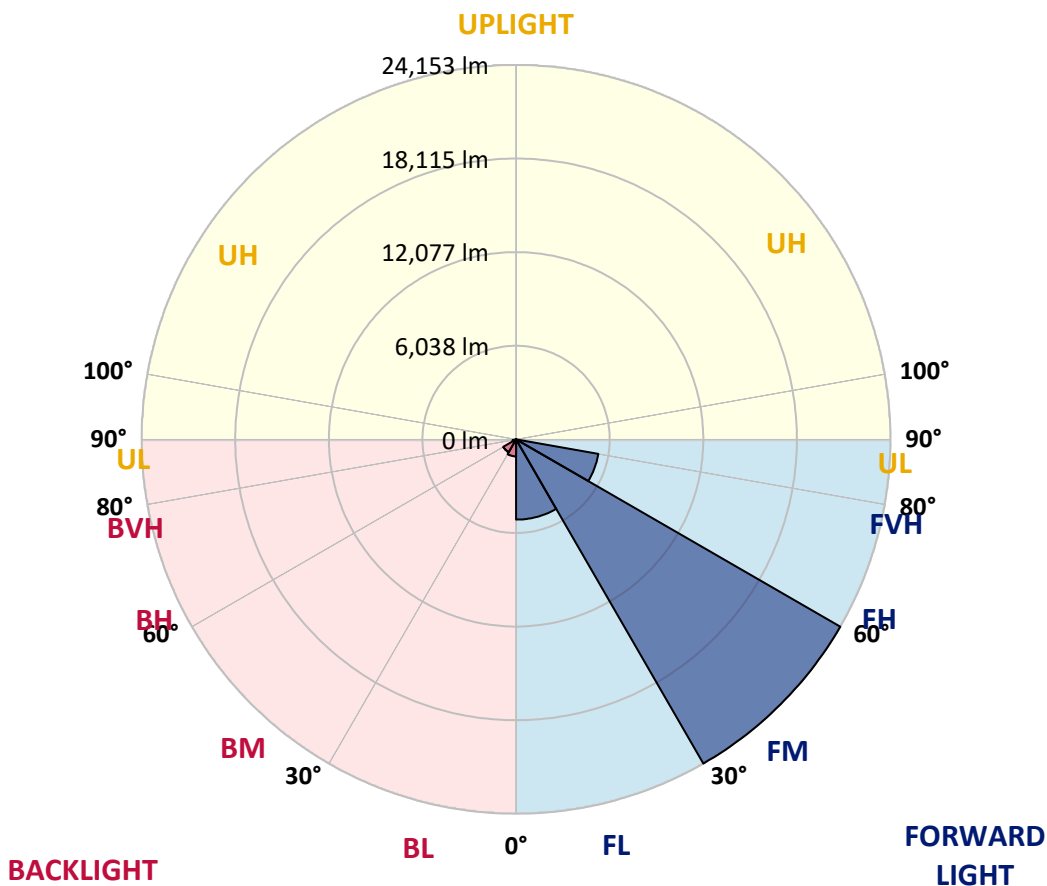
CATALOG NUMBER: GWS-SA6E-735-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5179.3	14.0			
FM (30°-60°)	24153.4	65.2			
FH (60°-80°)	5385.9	14.5			G3/7500
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	1098.1	3.0	B3/2500		
BM (30°-60°)	955.2	2.6	B1/1000		
BH (60°-80°)	229.2	0.6	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P643139

CATALOG NUMBER: GWS-SA6E-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1
2.5°	11150.8	11097.0	11179.3	11084.3	10922.9	10786.8	10609.6	10546.3	10261.4	9992.4	9732.8
5°	12505.5	12521.3	12496.0	12363.1	12135.2	11882.0	11524.3	11445.2	10948.2	10435.5	9881.6
7.5°	12841.0	12831.5	12885.3	12935.9	12898.0	12771.4	12382.0	12302.9	11685.7	10916.6	10109.5
10°	11806.0	11812.3	11923.1	12264.9	12689.1	13129.0	13068.9	13024.6	12420.0	11461.0	10362.7
12.5°	10343.7	10400.7	10517.8	11005.2	11723.7	12723.9	13344.2	13388.6	13094.2	12059.2	10660.2
15°	9710.7	9723.3	9818.3	10112.6	10647.5	11882.0	13227.1	13350.6	13657.6	12660.6	10983.1
17.5°	9694.8	9710.7	9751.8	9881.6	10229.7	11220.4	12850.5	13065.7	14081.7	13306.3	11369.2
20°	10289.9	10280.4	10251.9	10182.3	10334.2	11002.0	12502.3	12739.7	14312.8	13936.1	11758.5
22.5°	11369.2	11356.5	11229.9	10941.9	10818.5	11201.4	12331.4	12546.6	14452.0	14496.4	12078.2
25°	12613.1	12701.7	12464.3	12027.5	11723.7	11711.0	12483.3	12635.3	14572.3	14993.3	12296.6
27.5°	13977.3	14005.8	13803.2	13312.6	12872.6	12527.6	12923.3	13037.2	14705.3	15436.4	12420.0
30°	15474.4	15464.9	15233.8	14664.1	14129.2	13632.3	13663.9	13708.2	15015.4	15942.8	12556.1
32.5°	17345.0	17386.1	16974.7	16199.2	15556.7	14869.8	14632.5	14638.8	15575.7	16594.9	12761.9
35°	19886.6	19785.3	19240.9	18136.3	17041.1	16300.5	15895.4	15860.5	16439.8	17471.6	13119.5
37.5°	22307.9	22317.4	21747.7	20532.3	19149.1	17981.2	17408.3	17313.3	17655.2	18687.0	13714.6
40°	23988.6	24020.3	23782.9	23146.7	21681.2	20029.0	19187.1	19089.0	19231.4	20225.3	14493.2
42.5°	24878.0	24966.7	25033.1	25181.9	24070.9	22586.5	21291.9	21282.4	21133.7	21978.8	15395.3
45°	24912.8	25045.8	25450.9	26466.9	26593.5	25504.7	24096.2	23884.2	23311.3	23855.7	16202.4
47.5°	23536.0	23843.0	24703.9	26717.0	28046.3	28407.2	27011.3	26881.6	25273.7	25340.1	16806.9
50°	20326.6	20646.2	22232.0	25435.1	28413.5	30711.4	30211.3	29942.3	26913.2	26321.3	17098.1
52.5°	17034.8	17326.0	18402.1	22383.9	26891.1	31436.2	32908.0	32588.3	28385.0	26663.2	16977.8
55°	11853.5	12242.8	13293.6	16731.0	23384.1	30024.6	33800.6	33734.1	29698.5	26447.9	16791.1
57.5°	5811.2	6197.4	7245.0	10315.2	17322.8	26213.7	32436.4	32787.7	30483.5	26216.9	16639.2
60°	2427.7	2585.9	2946.7	4526.2	9691.7	19810.6	29356.7	29844.1	30002.4	25903.5	16623.3
62.5°	1408.5	1433.8	1471.8	1876.9	3769.7	11356.5	24352.6	25045.8	27473.5	25488.9	16373.3
65°	1063.5	1073.0	1057.2	1152.1	1557.3	4307.8	17595.0	18538.2	22931.5	23868.4	15385.8
67.5°	873.6	873.6	832.4	851.4	978.0	1614.2	9713.8	11030.5	16968.3	19617.6	12704.9
70°	696.3	712.2	693.2	667.8	699.5	892.6	3456.3	4285.6	9881.6	11584.4	7409.6
72.5°	528.6	528.6	560.2	541.2	519.1	560.2	1205.9	1354.7	3965.9	4830.0	2674.5
75°	408.3	421.0	443.1	424.1	392.5	332.3	579.2	614.0	1196.4	1123.6	598.2
77.5°	208.9	212.1	281.7	310.2	291.2	202.6	253.2	278.5	389.3	348.2	221.6
80°	126.6	132.9	158.3	243.7	193.1	107.6	104.4	110.8	183.6	158.3	91.8
82.5°	53.8	57.0	88.6	88.6	79.1	41.1	41.1	41.1	88.6	82.3	38.0
85°	0.0	0.0	15.8	12.7	12.7	15.8	15.8	15.8	22.2	31.7	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643139
 CATALOG NUMBER: GWS-SA6E-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1	9565.1
2.5°	9565.1	9362.5	9090.3	8843.4	8511.1	8324.3	8064.8	7852.7	7672.3	7615.3	7590.0
5°	9568.2	9220.1	8637.7	8055.3	7340.0	6776.6	6197.4	5738.4	5361.8	5241.5	5209.8
7.5°	9631.5	9118.8	8175.6	7118.4	5922.0	4934.5	4051.4	3260.1	2892.9	2769.5	2744.2
10°	9717.0	9033.3	7640.7	5994.8	4276.1	3006.9	2130.1	1623.7	1383.2	1250.2	1269.2
12.5°	9827.8	8963.7	7048.8	4779.4	2829.6	1652.2	1171.1	981.2	930.6	905.2	892.6
15°	9976.5	8881.4	6314.5	3573.4	1734.5	1063.5	902.1	851.4	832.4	819.8	816.6
17.5°	10128.5	8786.4	5567.5	2513.1	1152.1	883.1	810.3	785.0	772.3	762.8	759.6
20°	10289.9	8625.0	4690.7	1731.3	908.4	794.5	747.0	718.5	702.7	686.8	683.7
22.5°	10359.5	8365.5	3852.0	1212.3	807.1	731.1	671.0	636.2	617.2	604.5	604.5
25°	10293.0	7944.5	2984.7	921.1	734.3	661.5	601.4	563.4	547.6	534.9	534.9
27.5°	10115.8	7403.3	2177.6	762.8	655.2	588.7	531.7	496.9	484.3	477.9	477.9
30°	9919.6	6719.6	1535.1	655.2	566.6	512.8	465.3	443.1	440.0	433.6	433.6
32.5°	9751.8	6080.2	1057.2	576.1	500.1	446.3	414.6	405.1	408.3	402.0	405.1
35°	9660.0	5453.5	785.0	512.8	446.3	395.6	379.8	379.8	379.8	376.7	376.7
37.5°	9698.0	4836.3	639.4	468.4	398.8	360.8	345.0	351.3	357.7	357.7	357.7
40°	9887.9	4288.8	566.6	427.3	357.7	329.2	316.5	326.0	335.5	341.8	341.8
42.5°	10128.5	3845.7	512.8	392.5	329.2	297.5	291.2	300.7	310.2	316.5	316.5
45°	10280.4	3399.4	458.9	348.2	300.7	262.7	262.7	275.4	272.2	275.4	275.4
47.5°	10350.0	3044.9	405.1	300.7	256.4	227.9	231.1	237.4	231.1	237.4	237.4
50°	10179.1	2687.2	357.7	250.0	212.1	199.4	205.7	202.6	202.6	215.2	215.2
52.5°	9865.8	2421.3	316.5	212.1	180.4	177.2	183.6	170.9	174.1	174.1	170.9
55°	9634.7	2269.4	281.7	183.6	155.1	158.3	155.1	132.9	120.3	107.6	104.4
57.5°	9520.8	2209.3	256.4	164.6	139.3	139.3	126.6	91.8	69.6	53.8	47.5
60°	9495.4	2136.5	231.1	142.4	123.4	117.1	91.8	53.8	34.8	25.3	22.2
62.5°	9254.9	1959.2	208.9	113.9	107.6	95.0	57.0	31.7	19.0	12.7	9.5
65°	8466.8	1611.1	186.7	88.6	82.3	69.6	34.8	19.0	9.5	3.2	0.0
67.5°	6735.4	1142.6	164.6	66.5	57.0	44.3	22.2	12.7	3.2	0.0	0.0
70°	3883.6	617.2	136.1	47.5	38.0	28.5	15.8	6.3	0.0	0.0	0.0
72.5°	1297.7	288.0	104.4	31.7	28.5	22.2	9.5	3.2	0.0	0.0	0.0
75°	284.9	170.9	69.6	22.2	19.0	15.8	6.3	0.0	0.0	0.0	0.0
77.5°	107.6	120.3	34.8	15.8	12.7	9.5	3.2	0.0	0.0	0.0	0.0
80°	41.1	79.1	15.8	9.5	9.5	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	31.7	9.5	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	15.8	6.3	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.2	3.2	3.2	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)