

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: P642149

Luminaire Tested: GWS-SA6C-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642149
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-SA6C-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: 23485.4 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

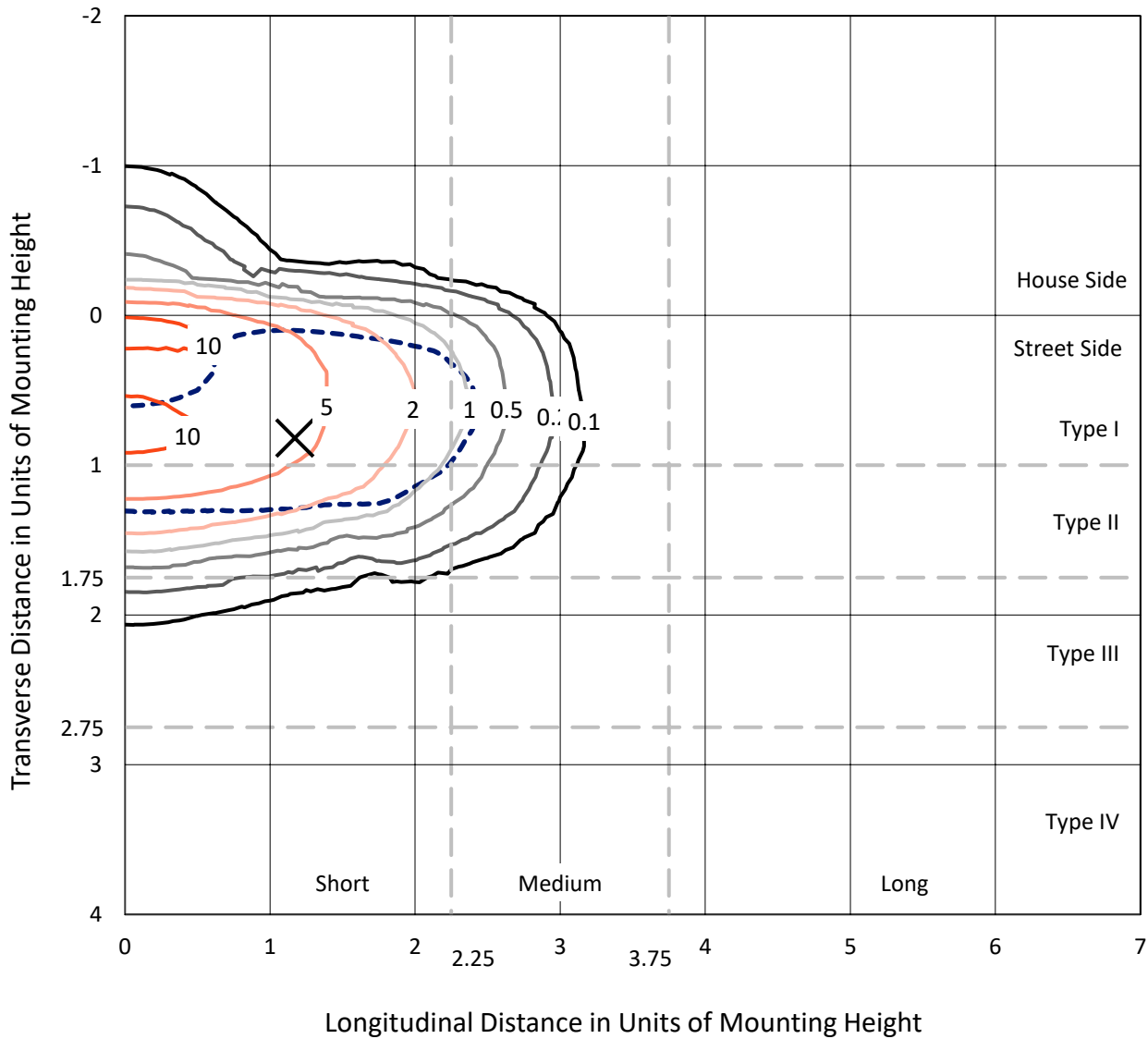
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

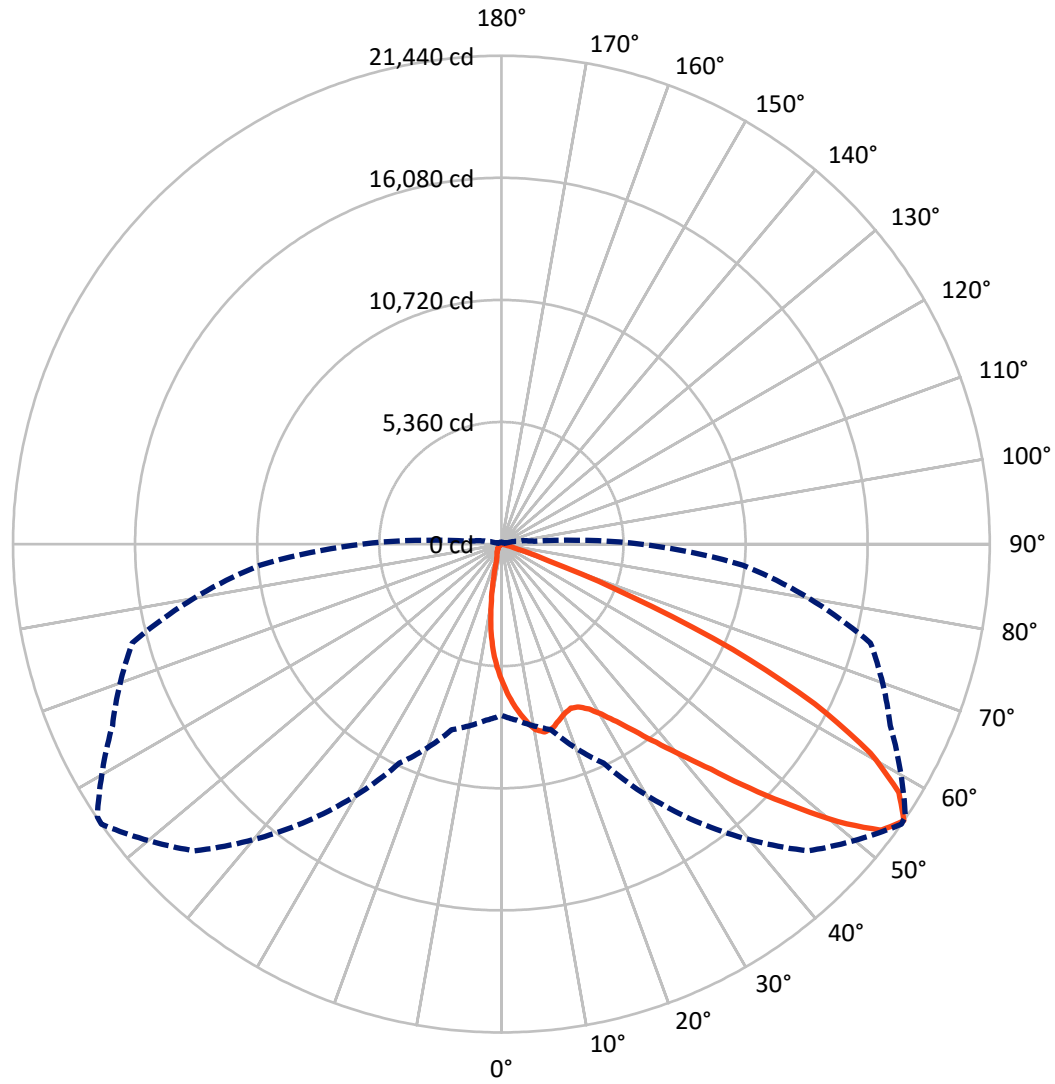
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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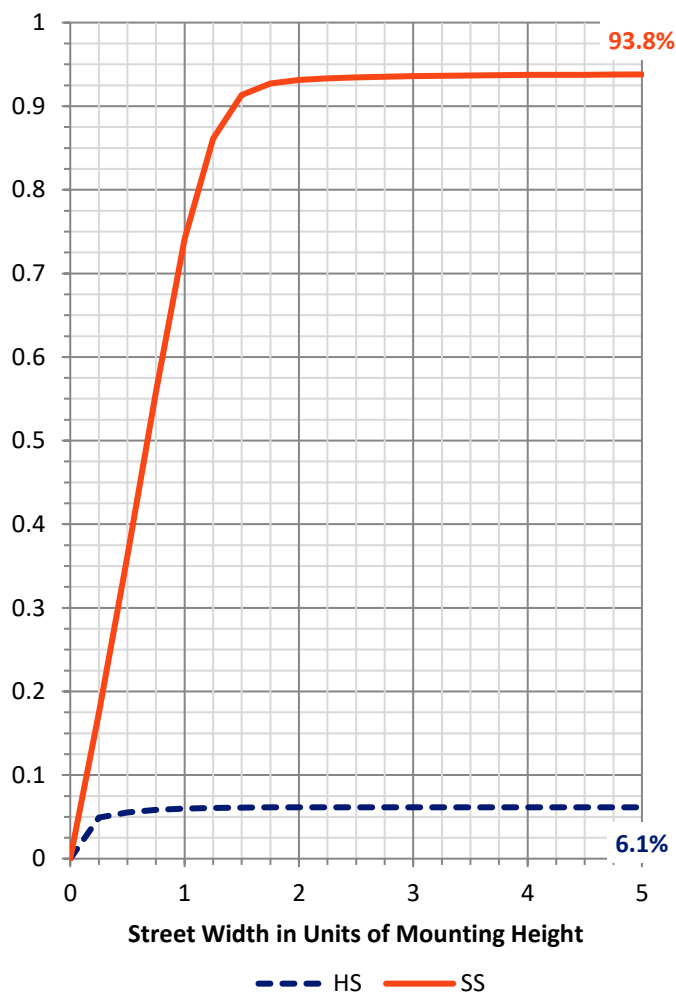
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.1	0.0	1449.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22036.2	0.0	22036.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	23485.4	0.0	23485.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.2	2.3
10°-20°	1292.7	5.5
20°-30°	2152.9	9.2
30°-40°	3668.6	15.6
40°-50°	5988.5	25.5
50°-60°	6269.6	26.7
60°-70°	3162.3	13.5
70°-80°	399.4	1.7
80°-90°	15.2	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°	23485.4	100.0
0°-180°	23485.4	100.0

Coefficient of Utilization

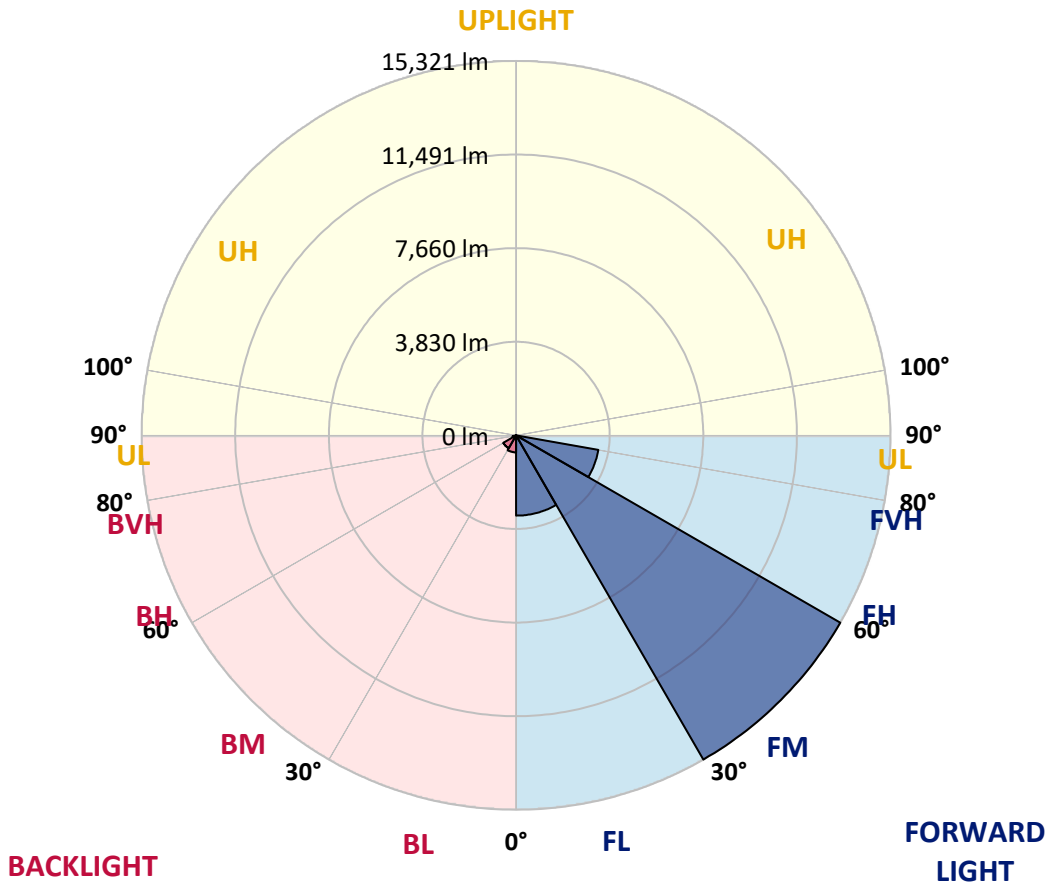


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3285.3	14.0			
FM (30°-60°)	15320.8	65.2			
FH (60°-80°)	3416.4	14.5			G2/5000
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	696.5	3.0	B2/1000		
BM (30°-60°)	605.9	2.6	B1/1000		
BH (60°-80°)	145.4	0.6	B1/500		G1/500
BVH (80°-90°)	1.4	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°	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3
2.5°	7073.1	7039.0	7091.2	7030.9	6928.6	6842.2	6729.8	6689.6	6508.9	6338.3	6173.7
5°	7932.4	7942.4	7926.4	7842.1	7697.5	7536.9	7310.0	7259.8	6944.6	6619.4	6268.0
7.5°	8145.2	8139.2	8173.3	8205.4	8181.4	8101.0	7854.1	7803.9	7412.4	6924.5	6412.6
10°	7488.7	7492.7	7563.0	7779.8	8048.8	8327.9	8289.8	8261.7	7878.2	7269.9	6573.2
12.5°	6561.1	6597.3	6671.6	6980.8	7436.5	8070.9	8464.4	8492.5	8305.8	7649.3	6761.9
15°	6159.6	6167.6	6227.9	6414.6	6753.9	7536.9	8390.2	8468.5	8663.2	8030.8	6966.7
17.5°	6149.6	6159.6	6185.7	6268.0	6488.9	7117.3	8151.2	8287.8	8932.2	8440.3	7211.6
20°	6527.0	6521.0	6502.9	6458.8	6555.1	6978.7	7930.4	8081.0	9078.8	8839.9	7458.6
22.5°	7211.6	7203.6	7123.3	6940.6	6862.3	7105.2	7822.0	7958.5	9167.1	9195.2	7661.4
25°	8000.7	8056.9	7906.3	7629.2	7436.5	7428.5	7918.3	8014.7	9243.4	9510.4	7799.9
27.5°	8866.0	8884.0	8755.6	8444.4	8165.3	7946.5	8197.4	8269.7	9327.7	9791.5	7878.2
30°	9815.6	9809.6	9663.0	9301.6	8962.3	8647.1	8667.2	8695.3	9524.5	10112.8	7964.5
32.5°	11002.2	11028.3	10767.3	10275.4	9867.8	9432.1	9281.6	9285.6	9879.9	10526.3	8095.0
35°	12614.3	12550.1	12204.8	11504.1	10809.4	10339.6	10082.6	10060.6	10428.0	11082.5	8321.9
37.5°	14150.2	14156.3	13794.9	13023.9	12146.5	11405.7	11042.3	10982.1	11198.9	11853.4	8699.3
40°	15216.3	15236.4	15085.8	14682.3	13752.7	12704.7	12170.6	12108.4	12198.7	12829.2	9193.2
42.5°	15780.5	15836.7	15878.9	15973.2	15268.5	14326.9	13505.8	13499.7	13405.4	13941.4	9765.4
45°	15802.6	15886.9	16143.9	16788.3	16868.6	16178.0	15284.6	15150.1	14786.7	15132.0	10277.4
47.5°	14929.2	15124.0	15670.1	16946.9	17790.2	18019.1	17133.7	17051.3	16031.4	16073.6	10660.9
50°	12893.4	13096.2	14102.0	16133.8	18023.1	19480.7	19163.4	18992.8	17071.4	16696.0	10845.6
52.5°	10805.4	10990.1	11672.7	14198.4	17057.4	19940.4	20874.0	20671.2	18005.0	16912.8	10769.3
55°	7518.8	7765.8	8432.3	10612.7	14832.8	19045.0	21440.2	21398.0	18838.2	16776.3	10650.8
57.5°	3686.1	3931.1	4595.6	6543.1	10988.1	16627.7	20574.8	20797.7	19336.1	16629.7	10554.4
60°	1539.9	1640.3	1869.2	2871.0	6147.6	12566.2	18621.4	18930.5	19030.9	16431.0	10544.4
62.5°	893.4	909.5	933.6	1190.6	2391.2	7203.6	15447.2	15886.9	17426.8	16168.0	10385.8
65°	674.6	680.6	670.6	730.8	987.8	2732.5	11160.8	11759.1	14545.7	15140.0	9759.4
67.5°	554.1	554.1	528.0	540.1	620.4	1023.9	6161.6	6996.8	10763.2	12443.7	8058.9
70°	441.7	451.7	439.7	423.6	443.7	566.2	2192.4	2718.4	6268.0	7348.2	4700.0
72.5°	335.3	335.3	355.4	343.3	329.3	355.4	764.9	859.3	2515.6	3063.7	1696.5
75°	259.0	267.0	281.1	269.0	249.0	210.8	367.4	389.5	758.9	712.7	379.5
77.5°	132.5	134.5	178.7	196.8	184.7	128.5	160.6	176.7	246.9	220.8	140.5
80°	80.3	84.3	100.4	154.6	122.5	68.3	66.3	70.3	116.4	100.4	58.2
82.5°	34.1	36.1	56.2	56.2	50.2	26.1	26.1	26.1	56.2	52.2	24.1
85°	0.0	0.0	10.0	8.0	8.0	10.0	10.0	10.0	14.1	20.1	12.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	6.0
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°	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3	6067.3
2.5°	6067.3	5938.8	5766.1	5609.5	5398.7	5280.2	5115.6	4981.1	4866.7	4830.5	4814.5
5°	6069.3	5848.4	5479.0	5109.6	4655.8	4298.5	3931.1	3639.9	3401.0	3324.7	3304.7
7.5°	6109.4	5784.2	5185.9	4515.3	3756.4	3130.0	2569.8	2067.9	1835.0	1756.7	1740.7
10°	6163.6	5730.0	4846.6	3802.6	2712.4	1907.3	1351.2	1029.9	877.4	793.0	805.1
12.5°	6233.9	5685.8	4471.1	3031.6	1794.9	1048.0	742.8	622.4	590.3	574.2	566.2
15°	6328.3	5633.6	4005.3	2266.7	1100.2	674.6	572.2	540.1	528.0	520.0	518.0
17.5°	6424.6	5573.4	3531.5	1594.1	730.8	560.1	514.0	497.9	489.9	483.9	481.8
20°	6527.0	5471.0	2975.4	1098.2	576.2	503.9	473.8	455.7	445.7	435.7	433.7
22.5°	6571.2	5306.3	2443.4	768.9	512.0	463.8	425.6	403.5	391.5	383.5	383.5
25°	6529.0	5039.3	1893.3	584.2	465.8	419.6	381.5	357.4	347.3	339.3	339.3
27.5°	6416.6	4696.0	1381.3	483.9	415.6	373.4	337.3	315.2	307.2	303.2	303.2
30°	6292.1	4262.3	973.7	415.6	359.4	325.2	295.1	281.1	279.1	275.1	275.1
32.5°	6185.7	3856.8	670.6	365.4	317.2	283.1	263.0	257.0	259.0	255.0	257.0
35°	6127.5	3459.3	497.9	325.2	283.1	251.0	240.9	240.9	240.9	238.9	238.9
37.5°	6151.6	3067.8	405.6	297.1	253.0	228.9	218.8	222.9	226.9	226.9	226.9
40°	6272.0	2720.4	359.4	271.0	226.9	208.8	200.8	206.8	212.8	216.8	216.8
42.5°	6424.6	2439.3	325.2	249.0	208.8	188.7	184.7	190.7	196.8	200.8	200.8
45°	6521.0	2156.3	291.1	220.8	190.7	166.6	166.6	174.7	172.7	174.7	174.7
47.5°	6565.2	1931.4	257.0	190.7	162.6	144.6	146.6	150.6	146.6	150.6	150.6
50°	6456.7	1704.5	226.9	158.6	134.5	126.5	130.5	128.5	128.5	136.5	136.5
52.5°	6258.0	1535.9	200.8	134.5	114.4	112.4	116.4	108.4	110.4	110.4	108.4
55°	6111.4	1439.5	178.7	116.4	98.4	100.4	98.4	84.3	76.3	68.3	66.3
57.5°	6039.1	1401.4	162.6	104.4	88.3	88.3	80.3	58.2	44.2	34.1	30.1
60°	6023.1	1355.2	146.6	90.3	78.3	74.3	58.2	34.1	22.1	16.1	14.1
62.5°	5870.5	1242.8	132.5	72.3	68.3	60.2	36.1	20.1	12.0	8.0	6.0
65°	5370.6	1021.9	118.5	56.2	52.2	44.2	22.1	12.0	6.0	2.0	0.0
67.5°	4272.4	724.8	104.4	42.2	36.1	28.1	14.1	8.0	2.0	0.0	0.0
70°	2463.4	391.5	86.3	30.1	24.1	18.1	10.0	4.0	0.0	0.0	0.0
72.5°	823.2	182.7	66.3	20.1	18.1	14.1	6.0	2.0	0.0	0.0	0.0
75°	180.7	108.4	44.2	14.1	12.0	10.0	4.0	0.0	0.0	0.0	0.0
77.5°	68.3	76.3	22.1	10.0	8.0	6.0	2.0	0.0	0.0	0.0	0.0
80°	26.1	50.2	10.0	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	20.1	6.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	10.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	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)