

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532183

Luminaire Tested: **GALN-SA7C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26625 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

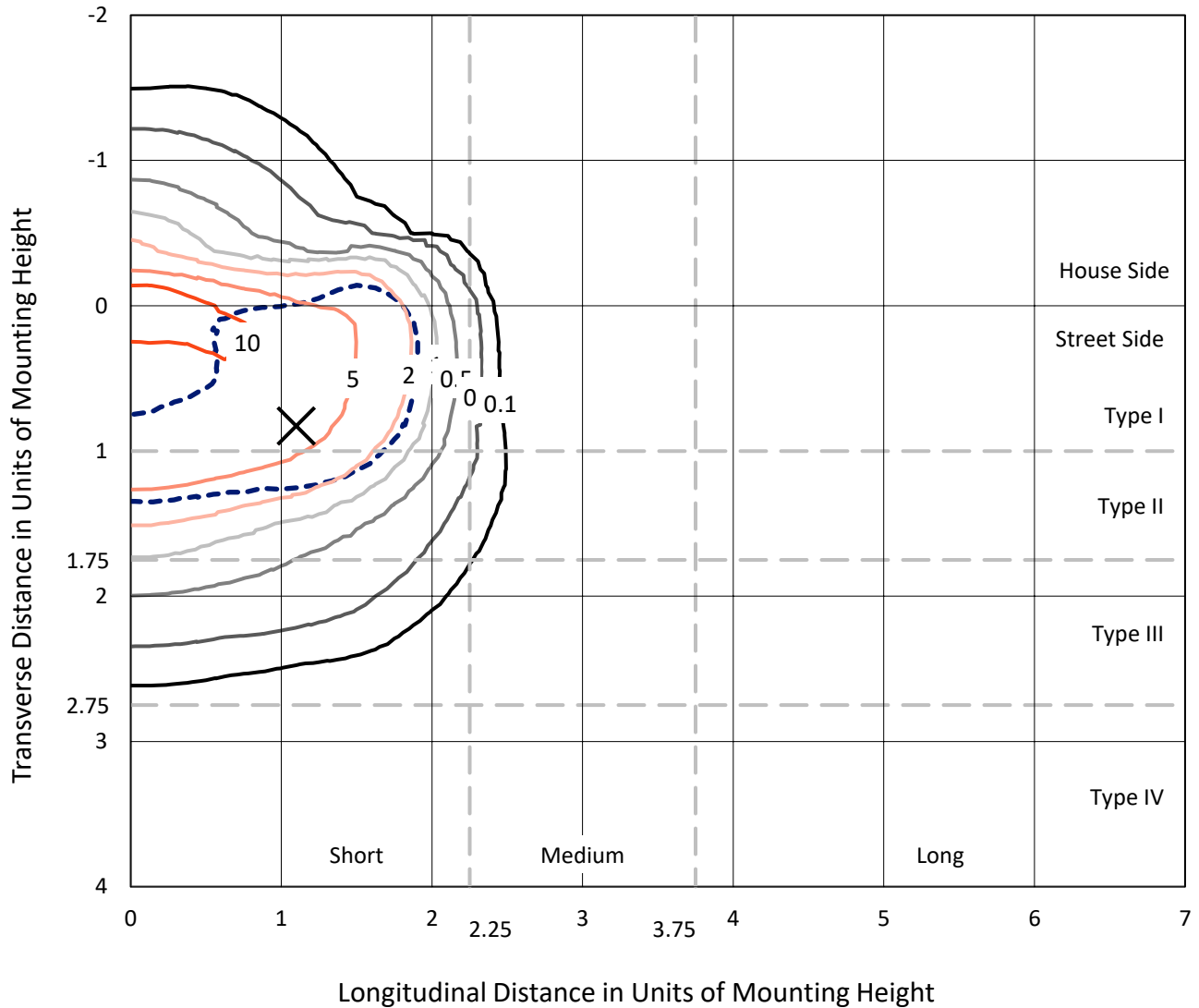
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

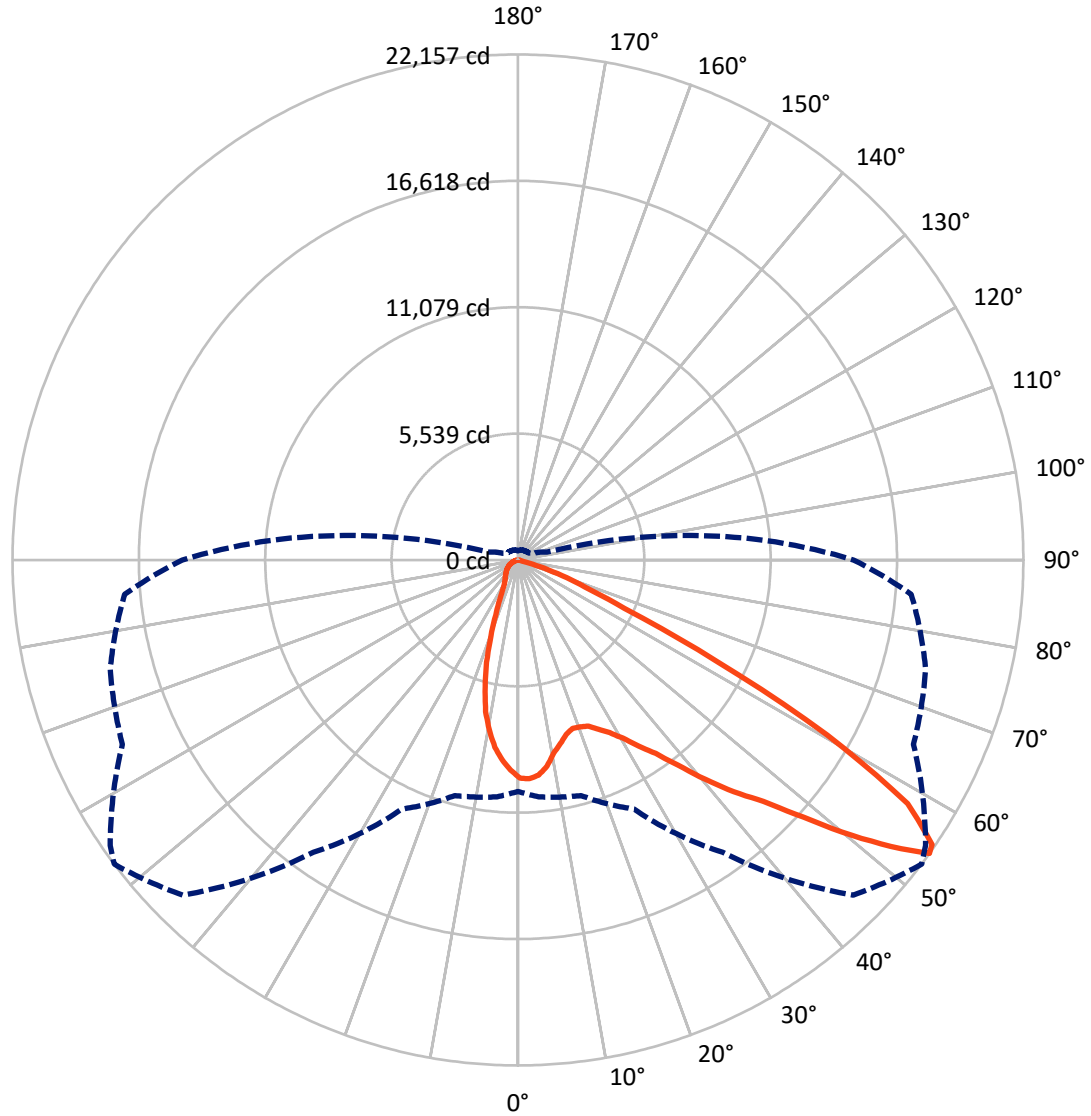
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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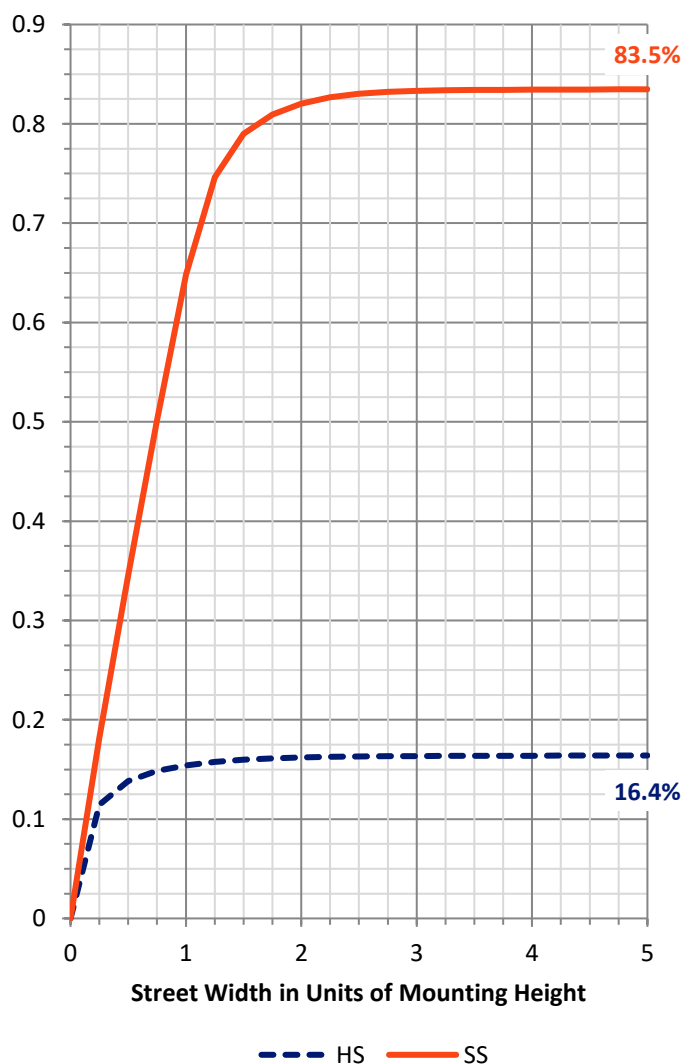
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4405.2	0.0	4405.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22219.8	0.0	22219.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	26625.0	0.0	26625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.5	3.1
10°-20°	1881.2	7.1
20°-30°	2673.5	10.0
30°-40°	4126.0	15.5
40°-50°	6469.1	24.3
50°-60°	7514.8	28.2
60°-70°	2839.5	10.7
70°-80°	270.0	1.0
80°-90°	30.4	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°	26625.0	100.0
0°-180°	26625.0	100.0

Coefficient of Utilization

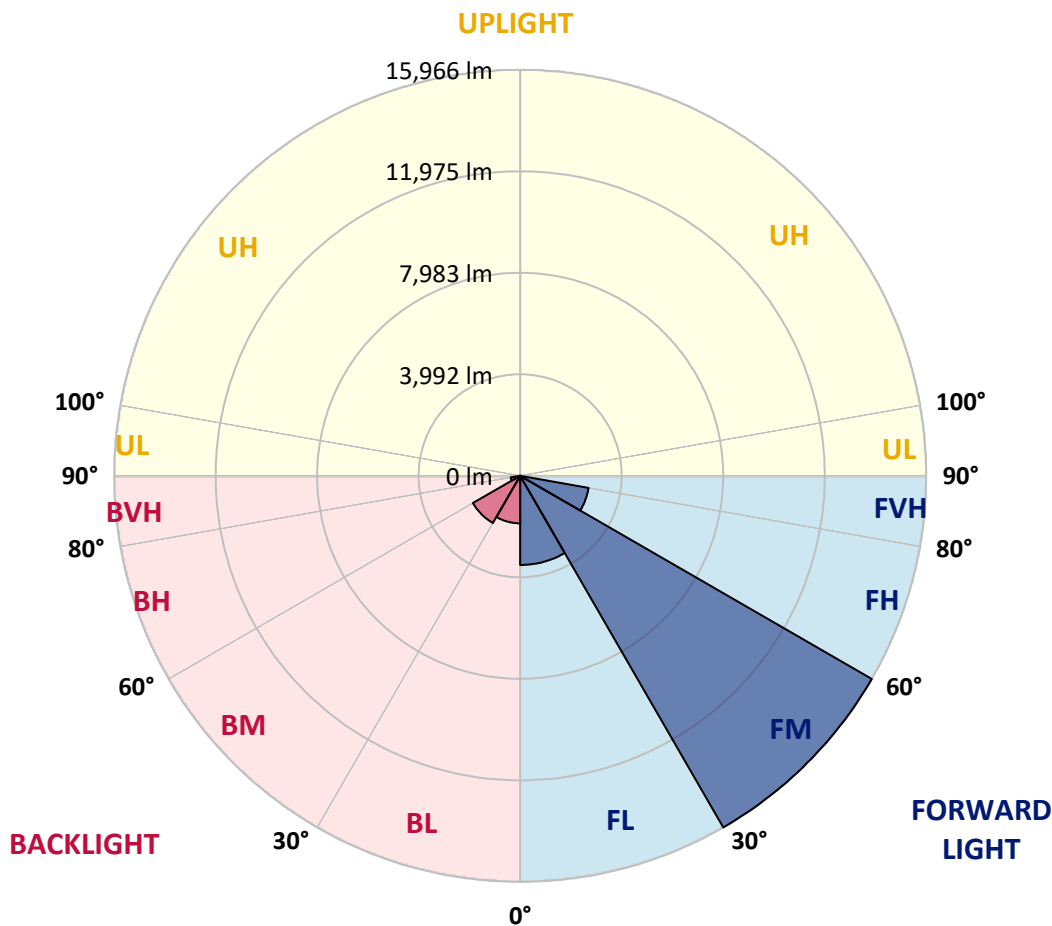


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3505.8	13.2			
FM (30°-60°)	15966.2	60.0			
FH (60°-80°)	2732.1	10.3			G2/5000
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1869.4	7.0	B3/2500		
BM (30°-60°)	2143.7	8.1	B2/2500		
BH (60°-80°)	377.4	1.4	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3
2.5°	9513.6	9429.3	9513.6	9523.6	9583.1	9637.7	9602.9	9682.3	9637.7	9588.1	9573.2
5°	8744.8	8858.9	8863.9	9042.4	9002.7	9330.1	9474.0	9434.3	9677.3	9662.5	9627.7
7.5°	8055.4	8010.7	8070.2	8278.6	8541.5	8918.4	9126.8	9121.8	9469.0	9717.0	9692.2
10°	7415.5	7410.5	7534.5	7698.2	7921.4	8318.2	8605.9	8749.8	9290.4	9667.4	9722.0
12.5°	6984.0	6964.1	7098.0	7232.0	7584.1	7891.7	8258.7	8328.2	8948.2	9493.8	9583.1
15°	6701.2	6745.9	6755.8	7013.7	7236.9	7643.7	7931.3	8075.2	8789.5	9354.9	9697.2
17.5°	6651.6	6711.1	6716.1	6929.4	7167.5	7509.7	7762.7	7956.1	8655.5	9424.4	9702.1
20°	6750.8	6716.1	6745.9	6879.8	7112.9	7440.3	7807.3	7871.8	8610.9	9459.1	9756.7
22.5°	7033.6	7023.6	6949.2	7058.4	7222.0	7564.3	7911.5	8010.7	8739.9	9637.7	9801.3
25°	7346.0	7400.6	7331.2	7316.3	7430.4	7767.7	8229.0	8357.9	9171.4	9960.1	9940.2
27.5°	7931.3	7876.8	7876.8	7807.3	7777.6	7941.3	8571.2	8784.5	9652.5	10376.7	10099.0
30°	8491.8	8551.4	8506.7	8531.5	8333.1	8318.2	9057.3	9320.2	10505.7	11011.6	10436.2
32.5°	9379.7	9300.4	9374.8	9310.3	9047.4	8779.5	9717.0	9989.8	11537.4	11740.8	10942.2
35°	10118.8	10084.1	10401.5	10391.6	9965.0	9702.1	10416.4	10823.1	12256.6	12613.8	11537.4
37.5°	11170.4	11105.9	11468.0	11641.6	11259.6	10867.8	11418.4	11889.6	12926.3	13313.2	12147.5
40°	12251.7	12415.4	12901.5	13189.2	12782.4	12261.6	12643.5	12787.4	13372.7	13769.5	12564.2
42.5°	13620.7	13858.8	14354.8	14602.8	14568.1	14002.6	13888.5	13883.6	13695.1	13640.5	12871.7
45°	14935.1	14845.9	15609.7	16150.4	16586.9	16423.2	15088.9	14940.1	14206.0	13834.0	12951.1
47.5°	15510.5	15480.8	16001.6	16963.9	18451.9	18655.3	16834.9	16259.5	15069.1	14647.4	13382.6
50°	14766.5	14920.3	15436.1	16502.6	18784.2	20336.8	18977.7	18203.9	16076.0	15639.5	14404.4
52.5°	12336.0	12440.2	12931.2	14285.4	17653.3	21328.8	21031.2	20584.8	17926.1	17201.9	16185.1
54°	10143.6	10421.4	10689.2	12048.3	15639.5	20778.2	22157.2	21814.9	19131.5	18501.5	17306.1
55°	8834.1	8997.8	9191.2	10545.4	14245.7	19845.7	22028.2	22058.0	19940.0	18908.3	18060.1
57.5°	6453.2	6567.3	6368.9	6969.1	9781.5	16115.7	20148.3	20951.9	21031.2	19518.4	18521.4
60°	4930.4	4980.0	4756.8	4851.1	6081.2	11061.2	15584.9	16552.2	18972.7	17058.1	15689.1
62.5°	3824.3	3834.2	3829.3	3993.0	4191.4	6507.8	9746.8	10604.9	13080.0	12112.8	10654.5
65°	2817.4	2772.7	2852.1	3348.1	3576.3	4092.2	5133.8	5758.8	7108.0	6001.8	4290.6
67.5°	1825.4	1840.2	1919.6	2490.0	3065.4	3139.8	3159.6	3110.0	3115.0	1716.2	1076.4
70°	1096.2	1121.0	1096.2	1408.7	2192.4	2251.9	2058.5	2008.9	1567.4	406.7	401.8
72.5°	649.8	615.1	550.6	605.1	912.7	1091.2	982.1	977.2	615.1	238.1	238.1
75°	272.8	248.0	203.4	183.5	243.0	233.1	233.1	208.3	163.7	158.7	148.8
77.5°	54.6	54.6	39.7	44.6	59.5	69.4	84.3	84.3	99.2	99.2	94.2
80°	0.0	5.0	14.9	29.8	44.6	64.5	74.4	74.4	84.3	84.3	69.4
82.5°	0.0	5.0	14.9	29.8	39.7	59.5	74.4	74.4	84.3	89.3	74.4
85°	0.0	5.0	14.9	24.8	39.7	49.6	49.6	44.6	34.7	29.8	19.8
87.5°	0.0	0.0	5.0	9.9	5.0	9.9	9.9	9.9	9.9	9.9	9.9
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°	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3
2.5°	9607.9	9602.9	9483.9	9290.4	9245.8	9082.1	9062.3	8963.1	9017.6	8834.1	8814.3
5°	9528.5	9469.0	9325.2	9201.2	8839.1	8581.1	8377.8	8129.8	7985.9	8010.7	7916.5
7.5°	9642.6	9488.8	9235.9	8804.3	8362.9	7911.5	7668.5	7162.5	6979.0	6706.2	6666.5
10°	9523.6	9409.5	9017.6	8303.4	7693.3	7043.5	6473.1	5912.5	5486.0	5302.4	5262.8
12.5°	9513.6	9315.2	8660.5	7866.9	6984.0	6051.4	5223.1	4523.7	4102.1	3864.0	3809.4
15°	9359.9	9121.8	8258.7	7192.3	5972.1	4811.4	3908.6	3234.0	2911.6	2772.7	2812.4
17.5°	9374.8	9017.6	7856.9	6478.0	4975.1	3531.7	2668.6	2321.4	2237.0	2271.8	2271.8
20°	9359.9	8784.5	7370.8	5654.6	3809.4	2450.3	1959.3	1835.3	1889.8	1999.0	1974.2
22.5°	9280.5	8675.4	6924.4	4786.6	2802.5	1815.4	1572.4	1577.3	1661.7	1795.6	1825.4
25°	9340.0	8432.3	6359.0	3908.6	2043.6	1448.4	1364.1	1398.8	1488.1	1587.3	1607.1
27.5°	9295.4	8258.7	5768.7	3035.6	1493.0	1245.0	1240.0	1279.7	1319.4	1393.8	1393.8
30°	9345.0	8100.0	5188.4	2256.9	1230.1	1140.8	1121.0	1150.8	1190.4	1205.3	1200.4
32.5°	9528.5	7980.9	4518.7	1686.5	1086.3	1041.6	1041.6	1041.6	1036.7	1056.5	1061.5
35°	9930.3	8000.8	3928.5	1304.5	992.0	957.3	942.4	922.6	912.7	922.6	927.6
37.5°	10366.8	7990.9	3318.4	1111.1	922.6	892.8	858.1	828.4	823.4	833.3	818.4
40°	10560.2	8085.1	2752.9	997.0	858.1	823.4	768.8	744.0	749.0	758.9	749.0
42.5°	10823.1	8114.9	2385.9	907.7	798.6	744.0	709.3	679.5	674.6	689.5	684.5
45°	10818.2	7946.2	1999.0	858.1	744.0	684.5	639.9	615.1	615.1	625.0	629.9
47.5°	11135.6	7921.4	1716.2	813.5	704.3	644.8	590.3	570.4	565.5	565.5	555.5
50°	11874.7	8268.6	1498.0	763.9	654.7	600.2	555.5	530.7	510.9	501.0	496.0
52.5°	13318.1	9350.0	1329.3	704.3	600.2	555.5	515.9	496.0	471.2	446.4	441.5
54°	14716.9	10466.0	1319.4	654.7	555.5	525.8	491.1	481.1	451.4	416.7	406.7
55°	15346.8	11115.8	1354.1	615.1	525.8	505.9	476.2	466.3	436.5	396.8	391.9
57.5°	15867.7	11368.8	1334.3	510.9	476.2	471.2	446.4	431.5	396.8	342.3	332.3
60°	12772.5	8596.0	957.3	451.4	436.5	426.6	406.7	396.8	352.2	292.7	287.7
62.5°	8070.2	4945.3	610.1	396.8	381.9	367.1	342.3	332.3	292.7	233.1	218.2
65°	3437.4	2048.6	411.7	352.2	327.4	302.6	282.7	267.9	233.1	173.6	168.6
67.5°	892.8	729.1	342.3	307.5	272.8	238.1	223.2	198.4	158.7	119.0	114.1
70°	401.8	367.1	287.7	257.9	218.2	183.5	163.7	138.9	104.2	79.4	74.4
72.5°	238.1	233.1	218.2	193.4	163.7	138.9	119.0	94.2	69.4	44.6	44.6
75°	148.8	143.8	148.8	133.9	114.1	104.2	89.3	64.5	39.7	19.8	19.8
77.5°	89.3	89.3	89.3	84.3	79.4	79.4	64.5	39.7	19.8	5.0	5.0
80°	69.4	69.4	74.4	69.4	69.4	69.4	54.6	29.8	9.9	0.0	0.0
82.5°	69.4	74.4	84.3	79.4	69.4	59.5	49.6	29.8	9.9	0.0	0.0
85°	19.8	14.9	24.8	34.7	49.6	44.6	34.7	24.8	9.9	0.0	0.0
87.5°	9.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0	5.0	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)