

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: P647521

Luminaire Tested: **GALN-SA6D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28122.2 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

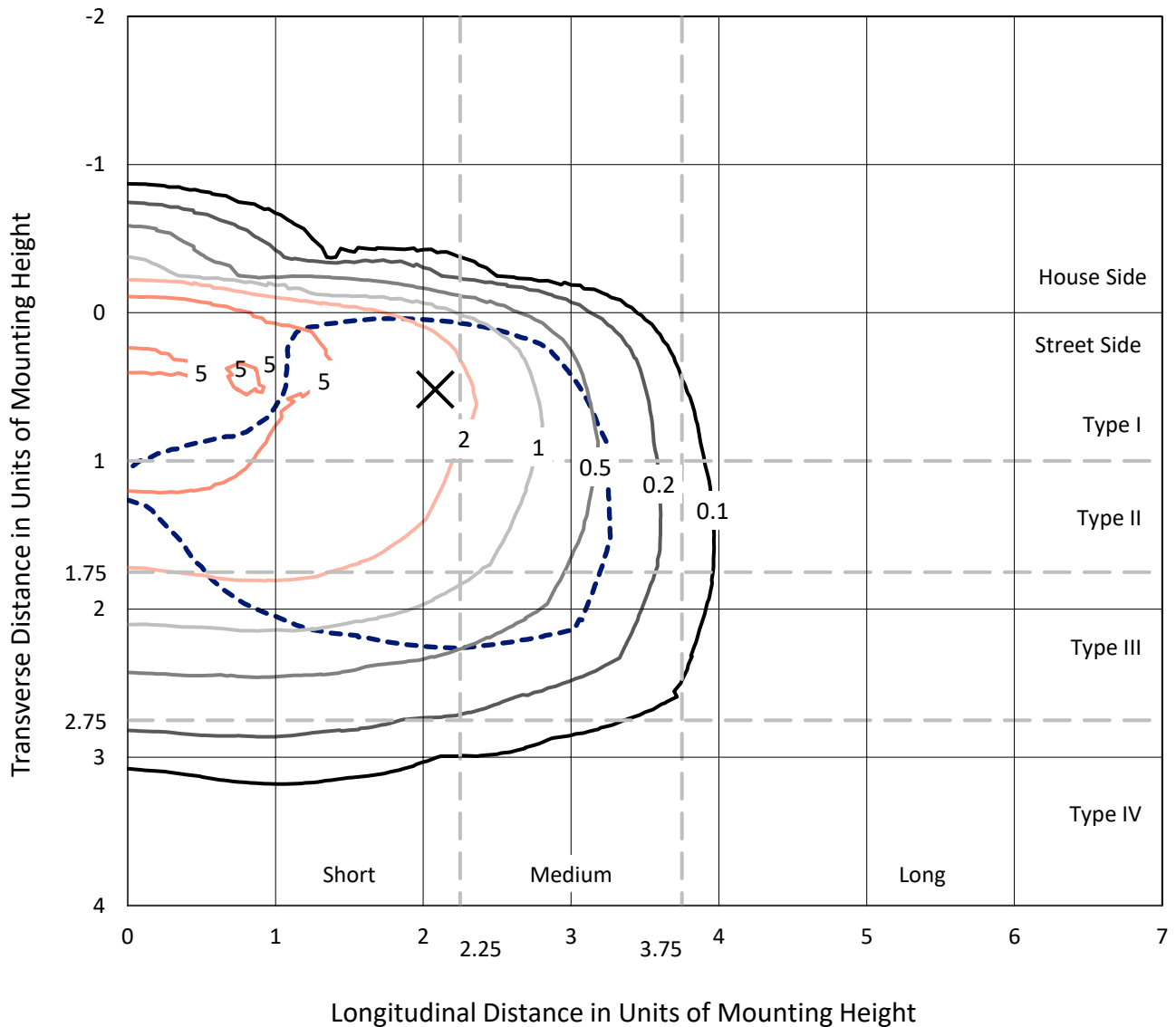
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647521
 CATALOG NUMBER: GALN-SA6D-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

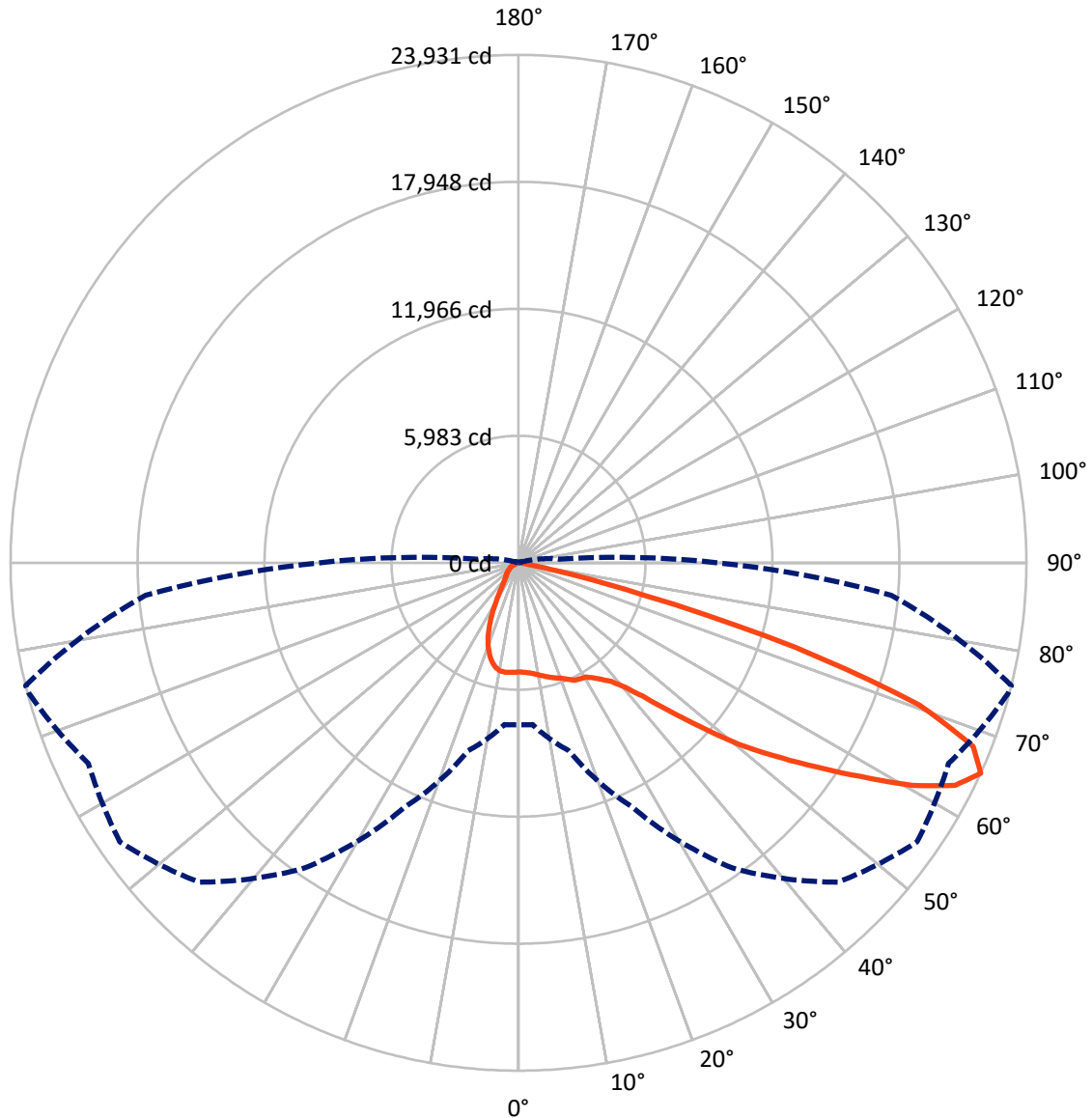
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

REPORT NUMBER: P647521
CATALOG NUMBER: GALN-SA6D-835-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647521
 CATALOG NUMBER: GALN-SA6D-835-U-T3R-HSS

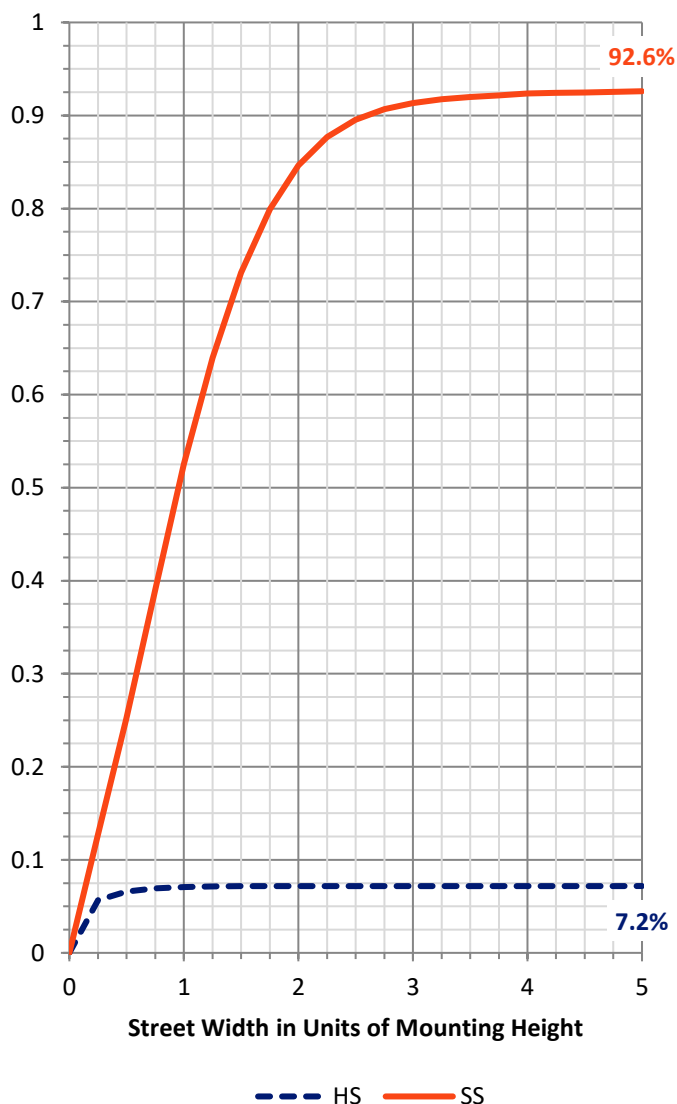
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2031.0	0.0	2031.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26091.2	0.0	26091.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	28122.2	0.0	28122.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.8	1.5
10°-20°	943.6	3.4
20°-30°	1520.5	5.4
30°-40°	2643.8	9.4
40°-50°	4368.7	15.5
50°-60°	6748.7	24.0
60°-70°	8241.1	29.3
70°-80°	3127.7	11.1
80°-90°	104.4	0.4
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°	28122.2	100.0
0°-180°	28122.2	100.0

Coefficient of Utilization



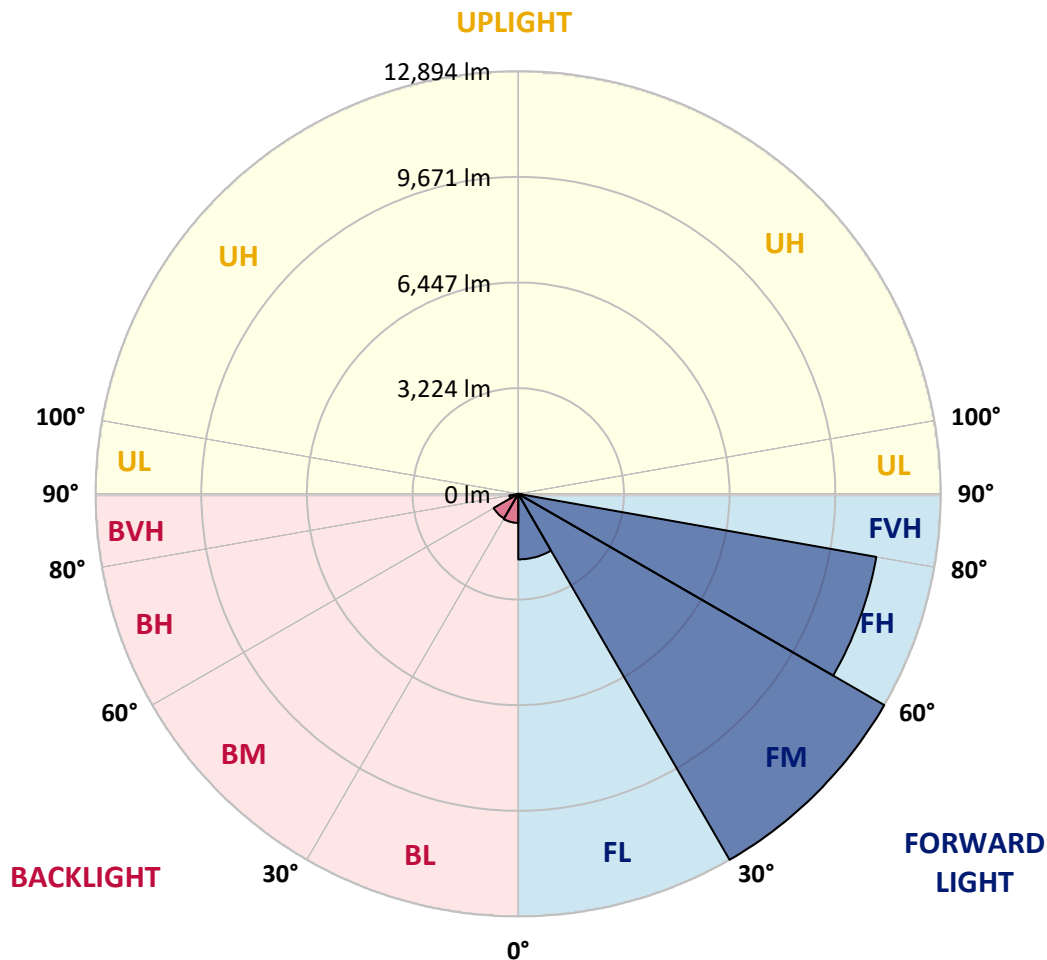
REPORT NUMBER: P647521
 CATALOG NUMBER: GALN-SA6D-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.6	7.1			
FM (30°-60°)	12894.5	45.9			
FH (60°-80°)	11093.3	39.4			G4/12000
FVH (80°-90°)	102.9	0.4			G2/225
BL (0°-30°)	887.3	3.2	B2/1000		
BM (30°-60°)	866.7	3.1	B1/1000		
BH (60°-80°)	275.6	1.0	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-G4

Type III Short





REPORT NUMBER: P647521

CATALOG NUMBER: GALN-SA6D-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5
2.5°	4916.1	4918.1	4930.0	4959.8	5005.5	5043.2	5074.9	5126.6	5162.3	5166.3	5178.2
5°	4576.6	4552.8	4576.6	4654.0	4723.5	4828.8	4957.8	5086.8	5202.0	5210.0	5265.6
7.5°	4195.4	4215.2	4252.9	4332.4	4463.4	4624.2	4810.9	5041.2	5259.6	5279.5	5388.7
10°	3808.2	3851.9	3913.4	4034.6	4217.2	4425.7	4679.8	5009.5	5350.9	5378.7	5567.4
12.5°	3450.8	3470.6	3546.1	3708.9	3935.3	4229.1	4580.6	4991.5	5452.2	5485.9	5757.9
15°	3176.8	3202.6	3268.2	3415.1	3667.3	4044.5	4499.2	4985.6	5551.5	5599.2	5948.6
17.5°	3125.2	3141.1	3168.9	3268.2	3488.5	3897.5	4425.7	4983.6	5646.8	5704.4	6125.3
20°	3337.6	3323.8	3296.0	3286.0	3407.1	3784.4	4372.1	4999.5	5738.1	5803.7	6311.9
22.5°	3869.7	3887.6	3724.8	3532.2	3492.5	3766.5	4364.1	5074.9	5883.1	5960.5	6520.4
25°	4999.5	4862.5	4608.3	4147.7	3800.3	3875.7	4453.5	5253.7	6051.8	6137.2	6709.1
27.5°	6248.4	6206.7	5811.6	5053.1	4405.9	4106.1	4612.3	5390.6	6107.4	6194.8	6816.2
30°	7475.5	7525.1	7072.4	6234.5	5285.4	4532.9	4761.3	5442.2	6157.0	6248.4	6953.3
32.5°	8613.2	8672.7	8275.6	7445.6	6321.9	5271.5	5017.4	5642.8	6365.6	6458.9	7181.6
35°	9508.6	9516.6	9216.7	8555.5	7453.6	6168.9	5571.4	5994.3	6647.5	6756.7	7423.8
37.5°	10330.6	10318.7	9967.3	9397.4	8396.7	7060.5	6268.2	6399.3	6969.2	7082.3	7773.2
40°	10940.2	10948.1	10834.9	10298.8	9276.3	7884.4	6820.2	6778.5	7509.2	7685.9	8281.6
42.5°	11347.2	11420.7	11476.3	11204.3	10382.2	8899.0	7668.0	7590.6	8446.4	8593.3	9000.3
45°	11676.8	11807.8	12085.8	12071.9	11444.5	10144.0	8831.5	8672.7	9774.7	9931.5	9915.6
47.5°	11917.0	12050.1	12510.7	12788.7	12443.2	11351.2	10294.9	10157.9	11361.1	11531.9	10926.2
50°	12040.1	12199.0	12786.7	13324.8	13223.5	12514.7	11962.7	11970.7	13277.1	13441.9	12097.7
52.5°	11752.2	11958.7	12933.6	13902.6	14099.1	13628.5	13525.3	13787.4	14982.6	15123.6	13156.0
55°	10833.0	11093.1	12733.1	14394.9	15113.7	14942.9	15300.4	15699.4	16847.0	16938.4	14242.1
57.5°	10251.2	10527.2	12141.4	14813.9	16332.8	16594.9	17160.8	17452.6	18771.0	19003.3	15488.9
60°	9760.8	9977.1	11655.0	14903.2	17571.8	18616.1	19166.1	19467.9	21145.7	21296.6	16861.0
62.5°	8944.7	9192.9	10833.0	14279.8	18195.2	20234.3	21374.0	21239.0	22982.2	23087.5	17702.8
65°	7632.3	7654.1	9165.1	12713.2	17551.9	21284.7	22924.7	22358.8	23859.9	23931.3	17637.3
67.5°	5696.4	5906.9	7050.5	9993.0	14825.8	20387.2	23427.0	22388.6	23305.9	23107.3	16237.5
70°	3669.2	3830.0	4779.1	6929.4	10690.0	17013.8	21761.2	20853.8	20454.7	20013.9	13291.0
72.5°	1693.6	1900.1	2839.3	3959.1	6339.7	12119.5	17665.1	16942.3	14722.5	13634.5	8448.3
75°	738.6	790.2	1401.8	2088.7	2972.3	6409.2	11647.0	10517.3	6649.5	6073.7	3381.3
77.5°	450.7	484.4	734.6	1119.8	1167.5	2442.2	6274.2	4588.5	2055.0	1812.8	917.3
80°	305.8	343.5	534.1	585.8	399.1	681.1	2354.8	1225.1	415.0	397.1	196.5
82.5°	148.9	188.6	395.1	327.6	172.7	218.4	685.0	262.1	121.1	113.1	69.5
85°	21.8	37.7	222.4	214.5	77.4	51.6	121.1	65.5	41.7	39.7	31.8
87.5°	0.0	0.0	75.5	33.7	7.9	7.9	13.9	13.9	15.9	13.9	15.9
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: P647521

CATALOG NUMBER: GALN-SA6D-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5	5144.5
2.5°	5184.2	5194.1	5156.4	5102.7	5045.2	4987.6	4906.2	4832.8	4789.1	4814.8	4751.3
5°	5277.5	5269.5	5170.2	5007.4	4791.0	4530.9	4272.8	4052.4	3980.9	3873.7	3861.8
7.5°	5406.5	5384.7	5174.2	4801.0	4312.5	3824.1	3347.6	3031.9	2851.2	2698.3	2702.3
10°	5587.3	5523.7	5128.6	4437.6	3633.5	2896.9	2289.3	1872.3	1691.7	1634.0	1588.4
12.5°	5773.8	5650.8	5001.5	3947.2	2829.4	1979.6	1391.9	1137.7	1026.5	990.7	986.8
15°	5940.6	5746.0	4779.1	3357.5	2057.0	1264.8	949.1	865.7	851.7	853.8	851.7
17.5°	6105.4	5821.5	4471.4	2732.0	1397.8	907.3	816.0	796.2	802.2	810.1	808.1
20°	6242.5	5837.4	4078.3	2084.8	988.8	796.2	766.4	762.4	768.4	774.4	774.4
22.5°	6391.3	5849.3	3611.7	1443.5	808.1	740.6	724.7	724.7	732.7	740.6	742.6
25°	6502.6	5783.8	3053.7	1036.5	712.8	687.0	679.0	681.1	689.0	693.0	690.9
27.5°	6520.4	5599.2	2462.1	794.2	647.3	621.5	613.6	621.5	611.5	617.5	613.6
30°	6536.3	5364.9	1862.4	669.2	587.7	548.0	536.1	524.1	516.2	506.3	504.3
32.5°	6586.0	5088.9	1360.1	601.6	532.1	488.4	460.6	426.9	401.1	393.1	391.1
35°	6607.7	4757.3	998.7	548.0	482.5	434.8	385.2	337.6	299.8	286.0	295.8
37.5°	6691.1	4435.6	774.4	508.3	438.8	379.2	315.7	256.1	220.4	212.4	216.4
40°	6861.9	4086.2	649.3	474.5	401.1	327.6	250.2	192.6	168.7	160.8	158.9
42.5°	7135.9	3738.7	577.8	442.8	363.3	276.0	196.5	150.9	131.1	125.1	125.1
45°	7469.5	3405.1	528.1	409.0	323.6	222.4	154.9	121.1	109.2	105.2	105.2
47.5°	7908.3	3113.3	486.5	375.3	279.9	176.7	125.1	105.2	97.3	99.3	101.2
50°	8353.0	2896.9	440.8	337.6	230.3	144.9	107.2	93.3	91.3	93.3	93.3
52.5°	8688.6	2769.8	379.2	286.0	180.7	121.1	95.3	87.4	85.3	81.4	81.4
55°	9141.3	2742.0	301.8	232.3	143.0	101.2	85.3	79.4	73.4	69.5	67.5
57.5°	9723.1	2773.8	232.3	180.7	111.2	83.4	75.5	65.5	57.6	49.6	49.6
60°	10084.4	2702.3	180.7	139.0	81.4	67.5	57.6	47.7	37.7	31.8	29.8
62.5°	9969.2	2400.4	143.0	103.3	57.6	49.6	37.7	31.8	21.8	15.9	13.9
65°	9375.6	1937.8	115.2	71.5	41.7	29.8	19.9	19.9	9.9	2.0	0.0
67.5°	8206.1	1435.6	91.3	47.7	23.8	13.9	9.9	6.0	0.0	0.0	0.0
70°	6679.2	1036.5	71.5	29.8	13.9	9.9	4.0	2.0	0.0	0.0	0.0
72.5°	4241.0	593.7	55.6	17.9	9.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	1640.0	232.3	37.7	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	464.6	109.2	21.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.1	47.7	11.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.6	19.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.7	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	2.0	0.0	0.0	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)