

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: P647133

Luminaire Tested: **GALN-SA8C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32635.4 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

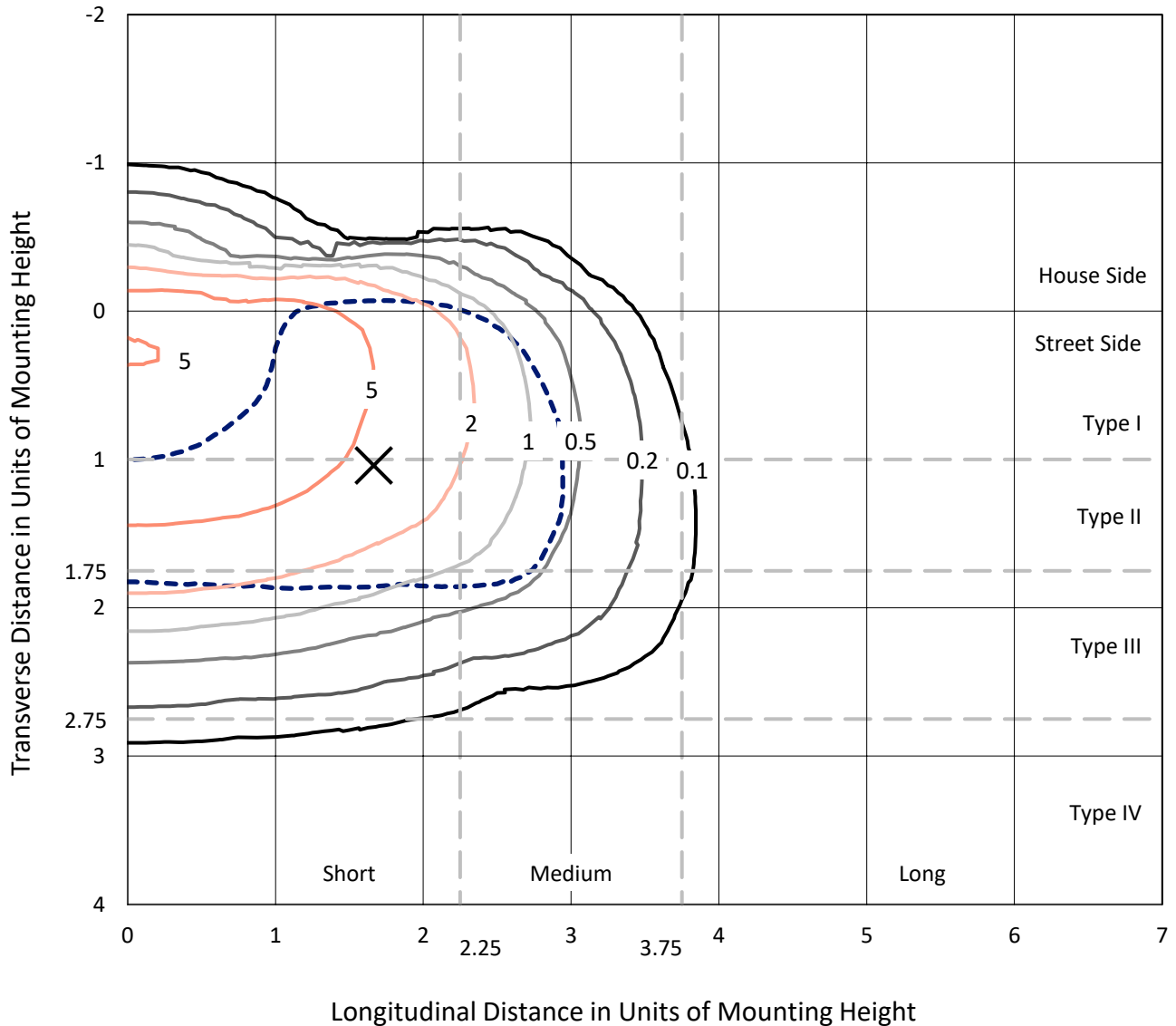
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647133
 CATALOG NUMBER: GALN-SA8C-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

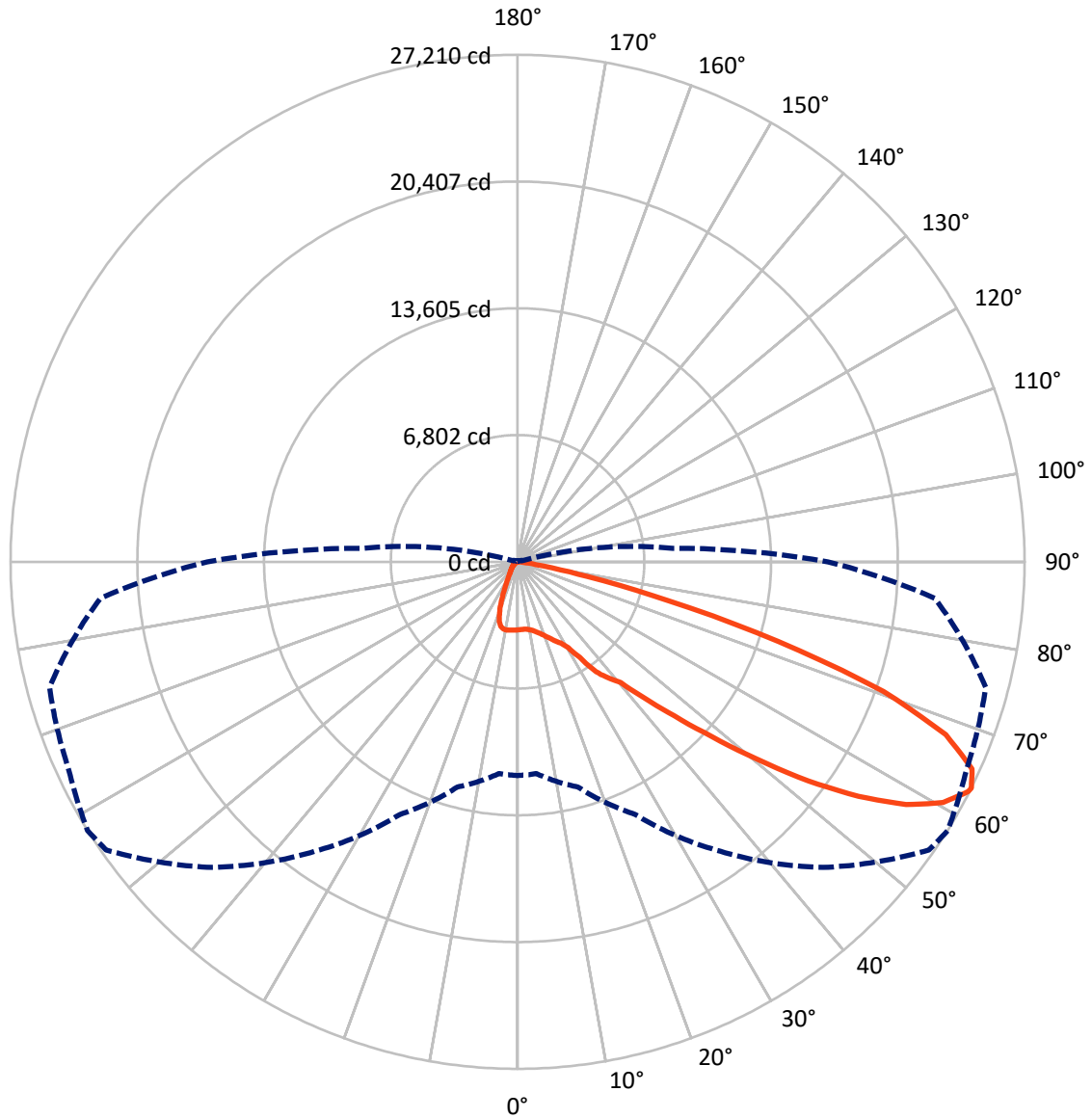
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

REPORT NUMBER: P647133
CATALOG NUMBER: GALN-SA8C-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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 CATALOG NUMBER: GALN-SA8C-835-U-T3-HSS

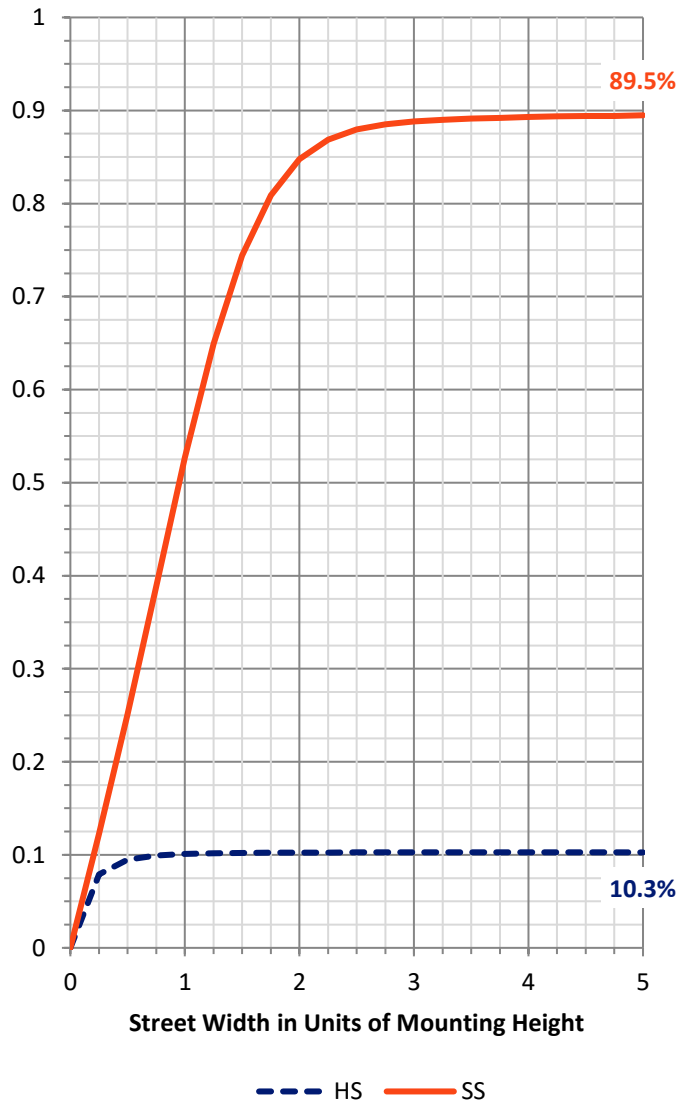
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3379.2	0.0	3379.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	29256.3	0.0	29256.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	32635.4	0.0	32635.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	1.0
10°-20°	931.6	2.9
20°-30°	1616.8	5.0
30°-40°	2971.0	9.1
40°-50°	5592.9	17.1
50°-60°	9566.2	29.3
60°-70°	9159.7	28.1
70°-80°	2335.7	7.2
80°-90°	119.4	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°	32635.4	100.0
0°-180°	32635.4	100.0

Coefficient of Utilization

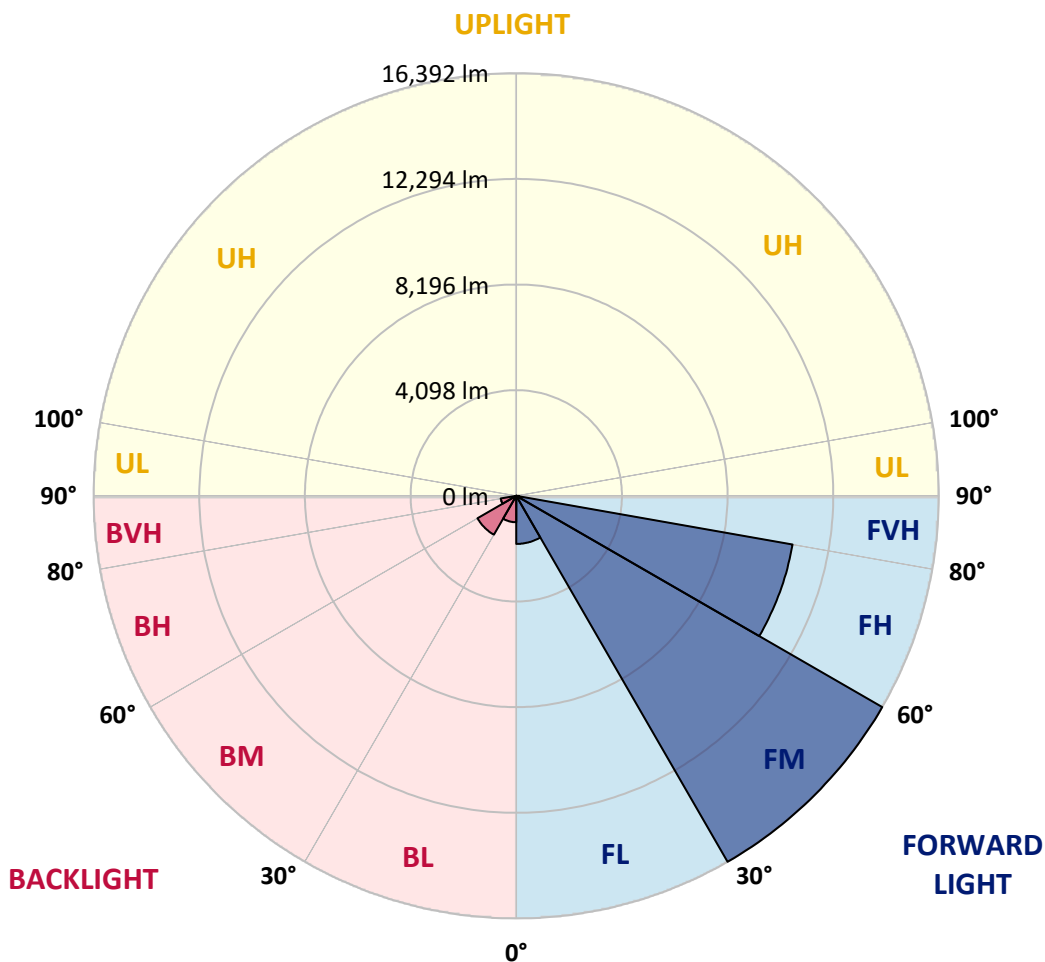


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.6	5.7			
FM (30°-60°)	16392.1	50.2			
FH (60°-80°)	10883.7	33.3			G4/12000
FVH (80°-90°)	114.8	0.4			G2/225
BL (0°-30°)	1024.8	3.1	B3/2500		
BM (30°-60°)	1738.1	5.3	B2/2500		
BH (60°-80°)	611.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	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-G4
 Type III Short





REPORT NUMBER: P647133

CATALOG NUMBER: GALN-SA8C-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3562.7	3575.0	3587.3	3592.2	3609.5	3626.6	3638.9	3636.5	3656.1	3665.9	3665.9
5°	3420.2	3420.2	3452.2	3481.7	3530.8	3580.0	3626.6	3636.5	3673.3	3707.7	3720.0
7.5°	3299.9	3307.2	3331.8	3385.8	3452.2	3538.2	3631.6	3653.6	3717.5	3793.7	3825.7
10°	3243.3	3248.3	3280.2	3336.7	3420.2	3538.2	3668.4	3710.2	3808.4	3928.9	3973.1
12.5°	3231.0	3238.4	3270.4	3334.2	3430.1	3572.6	3749.5	3793.7	3936.2	4091.0	4157.3
15°	3253.1	3258.1	3290.0	3358.8	3464.5	3634.0	3857.6	3919.0	4088.6	4267.9	4353.9
17.5°	3331.8	3326.9	3349.0	3405.5	3523.4	3710.2	3987.8	4061.5	4260.5	4506.2	4562.8
20°	3665.9	3634.0	3614.3	3565.2	3611.9	3818.3	4145.0	4253.2	4498.9	4749.5	4788.8
22.5°	4385.9	4314.6	4174.6	3982.9	3835.5	3965.7	4334.3	4459.6	4776.5	5022.2	5022.2
25°	5302.3	5211.4	5071.4	4653.7	4292.5	4208.9	4548.1	4705.3	5078.8	5326.9	5245.9
27.5°	6449.8	6378.6	6105.8	5619.4	5066.5	4634.0	4796.2	4941.2	5346.6	5646.4	5476.8
30°	7383.5	7349.1	7125.5	6690.6	6081.2	5449.8	5258.2	5353.9	5702.8	6049.3	5874.8
32.5°	8172.2	8172.2	7943.7	7538.3	6968.2	6408.1	6041.9	6110.8	6444.9	6845.4	6521.1
35°	9039.6	9010.1	8825.8	8440.0	7801.2	7307.3	7157.5	7250.8	7553.1	7850.4	7051.8
37.5°	9951.1	9941.3	9749.7	9376.2	8855.3	8233.6	7882.3	7906.9	8061.6	8243.5	7673.4
40°	10941.3	10956.0	10705.5	10474.5	9983.1	9346.7	8673.4	8518.6	8663.7	9177.2	8820.9
42.5°	12110.9	12076.5	11968.4	11653.9	11258.3	10877.4	10069.1	10012.5	10140.3	10690.7	10305.0
45°	13469.6	13518.8	13332.1	13157.6	12892.3	12575.3	11899.6	11801.3	11941.4	12796.4	12248.5
47.5°	14830.9	14784.2	14904.6	14872.6	15015.1	14779.3	14182.2	13980.7	14317.3	15128.2	14322.2
50°	15867.7	15919.3	16170.0	16536.1	17147.9	17280.6	16708.0	16639.3	16789.2	17310.1	16177.3
52.5°	16541.0	16713.0	17106.1	18047.2	19150.4	20007.9	19573.0	19536.2	19474.8	19614.8	17951.4
55°	16980.8	17155.3	17668.8	19054.6	20953.9	22347.1	22369.1	22211.9	21806.5	21705.8	19609.8
57.5°	16710.6	16744.9	17477.1	19329.8	21953.9	24015.4	24737.8	24580.6	23831.2	23450.3	21074.3
60°	15020.1	15091.3	16111.0	18288.0	21519.0	24560.9	26307.9	26236.6	25415.9	24985.9	22214.3
62.5°	12024.9	12231.3	13280.5	15708.1	19496.9	23641.9	26944.2	27145.7	26506.9	25914.7	22573.1
63°	11474.6	11408.2	12516.3	14956.2	18961.2	23187.4	26954.1	27209.6	26556.0	26003.2	22474.8
65°	8494.1	8693.1	9413.1	11793.9	15779.3	21071.9	26347.2	26799.3	26374.2	25612.5	21386.3
67.5°	4769.2	4759.3	5555.5	7717.6	11044.5	16528.7	23823.8	24779.5	24691.1	22983.4	17727.7
70°	2334.2	2371.1	2697.8	4000.1	6405.6	11403.3	19796.6	20828.6	20860.5	18052.1	12258.3
72.5°	1056.5	1073.7	1307.1	1948.5	3292.4	6071.4	13641.7	14626.9	14445.1	11504.0	6769.2
75°	557.7	594.6	719.9	980.4	1587.3	2503.7	7420.3	8373.7	7992.9	5255.7	2491.5
77.5°	412.8	425.1	489.0	624.1	850.2	975.5	3201.5	3808.4	3567.7	1901.8	825.6
80°	302.2	312.0	363.6	442.2	535.7	496.3	1206.4	1383.3	1240.8	646.2	253.1
82.5°	184.3	186.7	265.4	329.3	336.6	277.7	398.1	427.5	447.2	363.6	137.6
85°	66.3	83.5	179.4	238.3	199.0	140.1	167.1	184.3	201.5	231.0	81.1
87.5°	7.4	9.9	86.0	115.5	56.5	51.6	61.5	68.8	73.7	86.0	39.3
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°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3675.8	3685.6	3678.2	3665.9	3663.5	3656.1	3641.3	3641.3	3641.3	3646.3	3641.3
5°	3729.8	3737.2	3720.0	3695.4	3668.4	3634.0	3597.2	3575.0	3572.6	3567.7	3555.4
7.5°	3833.0	3842.9	3803.6	3744.5	3670.9	3587.3	3508.7	3435.0	3400.6	3373.6	3373.6
10°	3982.9	3992.8	3914.1	3808.4	3661.1	3491.5	3304.7	3135.2	3002.6	2941.1	2926.4
12.5°	4162.3	4167.2	4037.0	3852.7	3609.5	3282.6	2884.6	2513.6	2255.6	2137.7	2125.4
15°	4358.8	4324.4	4152.5	3869.9	3462.0	2852.6	2164.7	1710.2	1442.3	1363.7	1393.2
17.5°	4557.8	4494.0	4240.9	3842.9	3130.3	2164.7	1454.6	1167.1	1083.6	1061.4	1061.4
20°	4744.6	4656.1	4304.8	3724.9	2555.3	1491.5	1078.7	1009.8	995.1	980.4	982.8
22.5°	4931.3	4796.2	4361.3	3462.0	1904.3	1066.4	965.6	943.5	923.9	904.2	901.8
25°	5113.1	4926.4	4383.4	2975.5	1297.4	916.5	882.0	852.6	813.3	791.1	786.3
27.5°	5302.3	5083.7	4368.7	2361.2	945.9	820.7	786.3	744.5	697.8	658.5	658.5
30°	5666.0	5383.4	4317.1	1697.9	796.1	722.4	678.2	611.8	560.2	520.9	518.4
32.5°	6162.4	5774.1	4140.2	1194.2	707.7	636.3	570.0	496.3	442.2	412.8	412.8
35°	6604.6	6167.2	3808.4	879.6	636.3	552.9	471.8	400.5	358.8	339.0	331.7
37.5°	7277.8	6742.2	3351.5	715.0	567.6	479.1	395.6	329.3	294.9	280.1	280.1
40°	8287.7	7444.9	2791.2	626.6	501.3	407.9	329.3	277.7	250.6	233.4	233.4
42.5°	9540.8	8304.9	2223.6	562.7	439.8	351.3	275.2	235.9	211.3	199.0	196.5
45°	11118.2	9211.5	1712.6	503.7	390.6	299.7	233.4	199.0	174.5	167.1	169.5
47.5°	12764.5	10010.1	1326.8	452.1	339.0	253.1	199.0	172.0	154.8	144.9	144.9
50°	14170.0	10560.5	1007.4	393.1	299.7	213.8	174.5	154.8	140.1	135.1	132.7
52.5°	15344.4	10720.2	771.5	341.5	262.9	184.3	154.8	140.1	127.8	120.4	120.4
55°	16344.4	10580.1	604.5	287.4	221.1	159.7	137.6	125.3	110.6	103.2	100.8
57.5°	16929.2	10130.5	461.9	238.3	179.4	132.7	120.4	105.6	88.5	76.2	76.2
60°	17224.0	9476.9	353.8	196.5	137.6	105.6	98.3	78.6	61.5	51.6	49.2
62.5°	16870.3	8609.6	267.8	154.8	103.2	78.6	66.3	56.5	39.3	29.5	29.5
63°	16651.6	8358.9	258.0	147.4	95.8	73.7	61.5	51.6	34.4	27.0	24.6
65°	15179.8	7265.5	211.3	117.9	76.2	51.6	41.7	36.9	24.6	12.3	9.9
67.5°	12054.4	5557.9	167.1	88.5	54.0	36.9	24.6	22.1	7.4	0.0	0.0
70°	8150.1	3589.7	130.2	63.9	36.9	22.1	12.3	9.9	2.4	0.0	0.0
72.5°	4250.8	1840.4	100.8	46.7	22.1	14.7	7.4	2.4	0.0	0.0	0.0
75°	1503.8	626.6	73.7	29.5	14.7	7.4	2.4	0.0	0.0	0.0	0.0
77.5°	454.5	233.4	46.7	22.1	9.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	159.7	86.0	27.0	14.7	7.4	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	78.6	41.7	17.2	12.3	7.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	44.2	27.0	14.7	12.3	7.4	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	31.9	19.7	14.7	12.3	9.9	4.9	2.4	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)