

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: P459288

Luminaire Tested: **GALN-SA7C-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459288
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-SA7C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 33491 lumens
Efficiency: N/A
Efficacy: 88.8 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

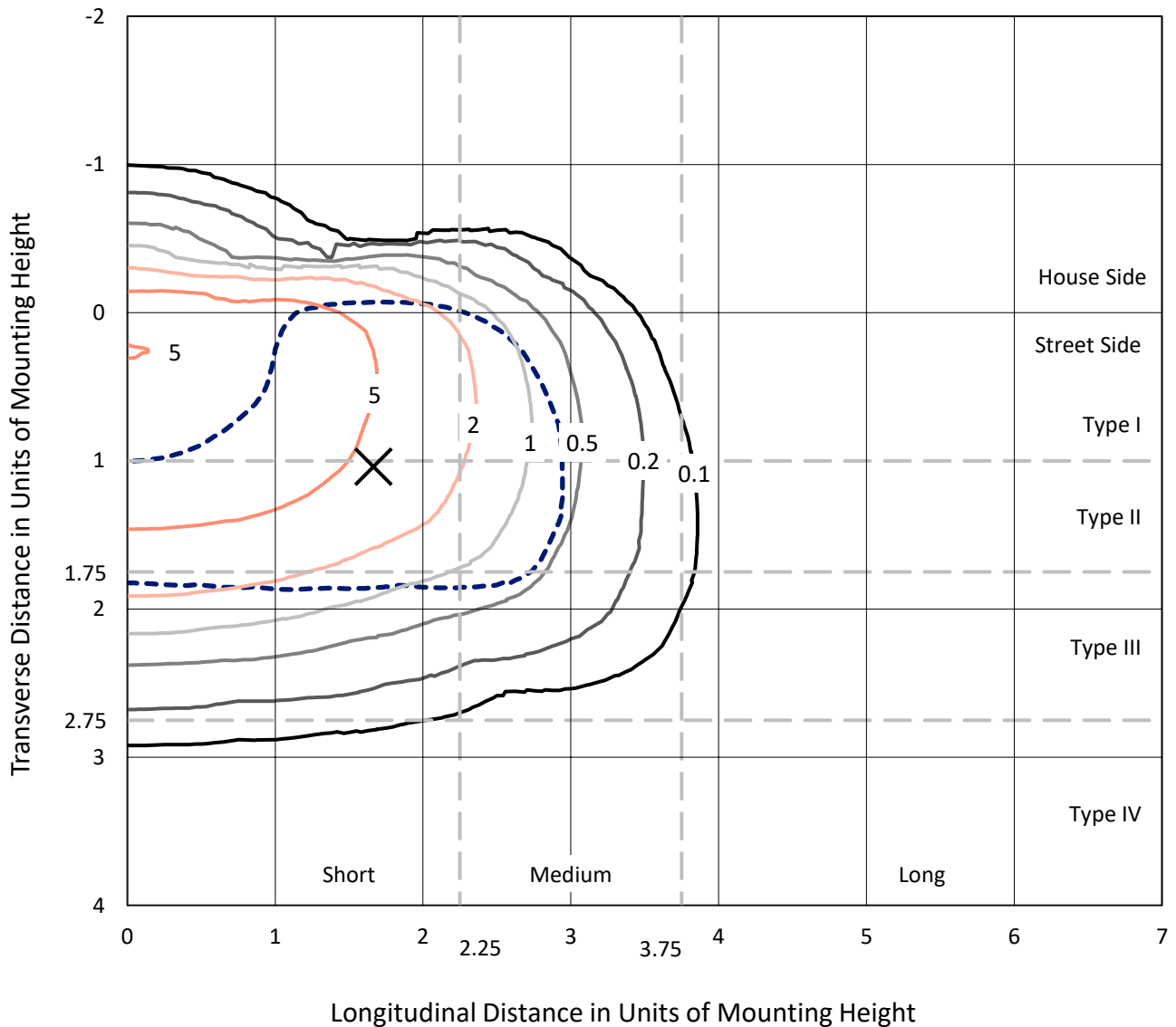
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459288
 CATALOG NUMBER: GALN-SA7C-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

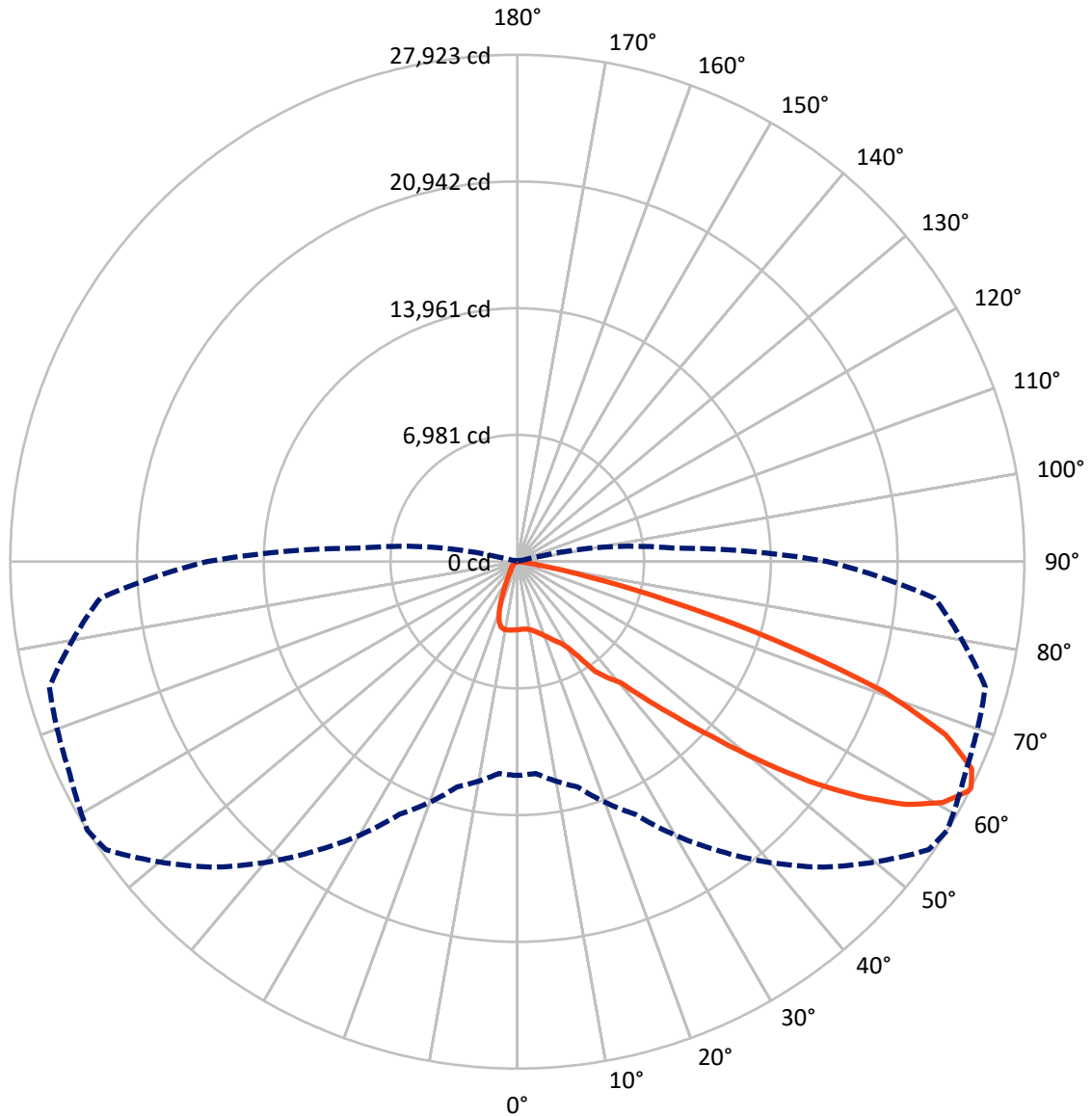
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P459288
CATALOG NUMBER: GALN-SA7C-735-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459288

CATALOG NUMBER: GALN-SA7C-735-U-T3-HSS

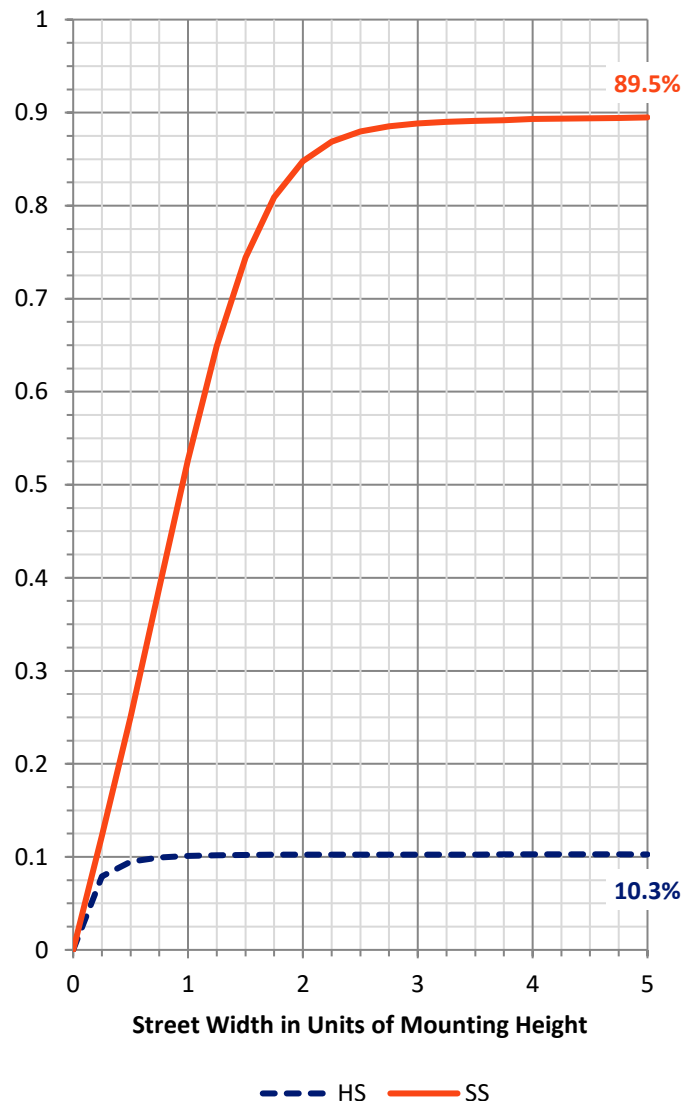
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3467.8	0.0	3467.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	30023.2	0.0	30023.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	33491.0	0.0	33491.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	1.0
10°-20°	956.0	2.9
20°-30°	1659.2	5.0
30°-40°	3048.9	9.1
40°-50°	5739.5	17.1
50°-60°	9817.0	29.3
60°-70°	9399.8	28.1
70°-80°	2397.0	7.2
80°-90°	122.6	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°	33491.0	100.0
0°-180°	33491.0	100.0



REPORT NUMBER: P459288

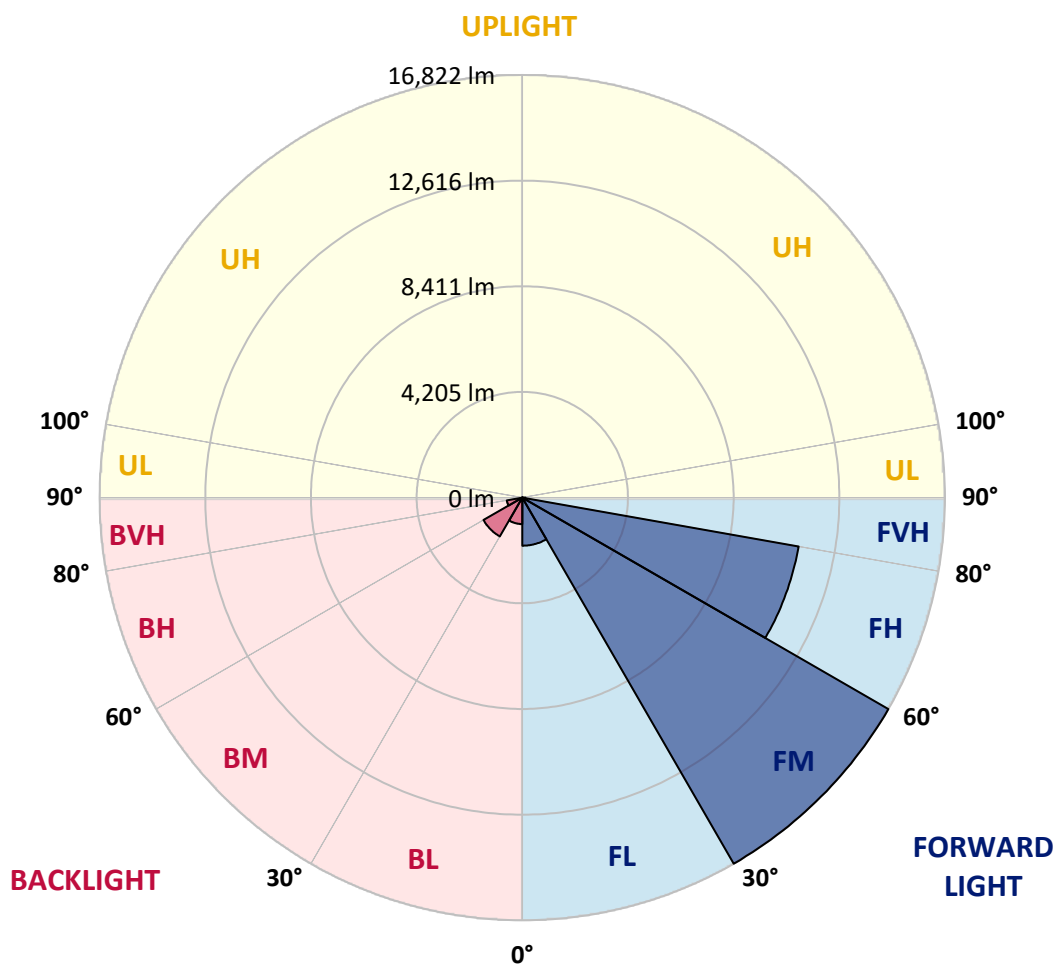
CATALOG NUMBER: GALN-SA7C-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1914.5	5.7			
FM	(30°-60°)	16821.9	50.2			
FH	(60°-80°)	11169.1	33.3			G4/12000
FVH	(80°-90°)	117.8	0.4			G2/225
BL	(0°-30°)	1051.7	3.1	B3/2500		
BM	(30°-60°)	1783.6	5.3	B2/2500		
BH	(60°-80°)	627.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.7	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: P459288

CATALOG NUMBER: GALN-SA7C-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4
2.5°	3656.2	3668.8	3681.4	3686.4	3704.1	3721.7	3734.3	3731.8	3752.0	3762.1	3762.1
5°	3509.9	3509.9	3542.7	3572.9	3623.4	3673.8	3721.7	3731.8	3769.6	3804.9	3817.5
7.5°	3386.4	3393.9	3419.1	3474.6	3542.7	3630.9	3726.8	3749.4	3815.0	3893.2	3926.0
10°	3328.4	3333.4	3366.2	3424.2	3509.9	3630.9	3764.6	3807.4	3908.3	4031.9	4077.2
12.5°	3315.8	3323.3	3356.1	3421.7	3520.0	3666.2	3847.8	3893.2	4039.4	4198.3	4266.4
15°	3338.4	3343.5	3376.3	3446.9	3555.3	3729.3	3958.7	4021.8	4195.7	4379.8	4468.1
17.5°	3419.1	3414.1	3436.8	3494.8	3615.8	3807.4	4092.4	4168.0	4372.3	4624.4	4682.4
20°	3762.1	3729.3	3709.1	3658.7	3706.6	3918.4	4253.7	4364.7	4616.8	4874.0	4914.4
22.5°	4500.8	4427.7	4284.0	4087.3	3936.0	4069.7	4447.9	4576.5	4901.8	5153.9	5153.9
25°	5441.4	5348.1	5204.3	4775.7	4405.0	4319.3	4667.3	4828.6	5211.9	5466.6	5383.4
27.5°	6618.9	6545.8	6265.9	5766.6	5199.3	4755.5	4921.9	5070.7	5486.7	5794.4	5620.4
30°	7577.1	7541.8	7312.3	6866.0	6240.7	5592.7	5396.0	5494.3	5852.4	6207.9	6028.9
32.5°	8386.5	8386.5	8152.0	7735.9	7150.9	6576.0	6200.3	6270.9	6613.9	7024.9	6692.0
35°	9276.5	9246.3	9057.2	8661.3	8005.7	7498.9	7345.1	7440.9	7751.0	8056.1	7236.7
37.5°	10212.0	10201.9	10005.2	9622.0	9087.4	8449.5	8088.9	8114.1	8273.0	8459.6	7874.6
40°	11228.2	11243.3	10986.1	10749.1	10244.8	9591.7	8900.8	8742.0	8890.8	9417.7	9052.1
42.5°	12428.4	12393.1	12282.1	11959.4	11553.4	11162.6	10333.0	10275.0	10406.2	10971.0	10575.1
45°	13822.8	13873.2	13681.6	13502.5	13230.2	12905.0	12211.5	12110.7	12254.4	13131.9	12569.6
47.5°	15219.7	15171.8	15295.3	15262.5	15408.8	15166.7	14554.0	14347.2	14692.7	15524.8	14697.7
50°	16283.7	16336.7	16593.9	16969.6	17597.4	17733.6	17146.1	17075.5	17229.3	17763.9	16601.5
52.5°	16974.6	17151.1	17554.6	18520.3	19652.4	20532.4	20086.1	20048.3	19985.3	20129.0	18422.0
55°	17426.0	17605.0	18132.0	19554.1	21503.2	22932.9	22955.6	22794.2	22378.2	22274.8	20124.0
57.5°	17148.6	17183.9	17935.3	19836.5	22529.5	24645.0	25386.3	25224.9	24455.9	24065.0	21626.8
60°	15413.8	15487.0	16533.4	18767.4	22083.2	25204.8	26997.5	26924.4	26082.2	25641.0	22796.7
62.5°	12340.1	12551.9	13628.6	16119.8	20008.0	24261.7	27650.6	27857.4	27201.8	26594.1	23164.9
63°	11775.3	11707.3	12844.4	15348.3	19458.3	23795.2	27660.7	27922.9	27252.2	26684.9	23064.0
65°	8716.8	8921.0	9659.8	12103.1	16193.0	21624.2	27037.9	27501.8	27065.6	26284.0	21947.0
67.5°	4894.2	4884.1	5701.1	7920.0	11334.1	16962.0	24448.3	25429.2	25338.4	23586.0	18192.5
70°	2395.4	2433.2	2768.6	4105.0	6573.5	11702.2	20315.6	21374.6	21407.4	18525.3	12579.7
72.5°	1084.2	1101.9	1341.4	1999.5	3378.8	6230.6	13999.3	15010.4	14823.8	11805.6	6946.7
75°	572.4	610.2	738.8	1006.1	1628.9	2569.4	7614.9	8593.2	8202.4	5393.5	2556.8
77.5°	423.6	436.2	501.8	640.5	872.4	1001.0	3285.5	3908.3	3661.2	1951.6	847.2
80°	310.1	320.2	373.2	453.9	549.7	509.3	1238.0	1419.6	1273.3	663.2	259.7
82.5°	189.1	191.6	272.3	337.9	345.4	284.9	408.5	438.7	458.9	373.2	141.2
85°	68.1	85.7	184.1	244.6	204.2	143.7	171.5	189.1	206.8	237.0	83.2
87.5°	7.6	10.1	88.3	118.5	58.0	53.0	63.0	70.6	75.6	88.3	40.3
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: P459288
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4
2.5°	3772.1	3782.2	3774.7	3762.1	3759.5	3752.0	3736.8	3736.8	3736.8	3741.9	3736.8
5°	3827.6	3835.2	3817.5	3792.3	3764.6	3729.3	3691.5	3668.8	3666.2	3661.2	3648.6
7.5°	3933.5	3943.6	3903.3	3842.7	3767.1	3681.4	3600.7	3525.0	3489.7	3462.0	3462.0
10°	4087.3	4097.4	4016.7	3908.3	3757.0	3583.0	3391.4	3217.4	3081.3	3018.2	3003.1
12.5°	4271.4	4276.4	4142.8	3953.7	3704.1	3368.7	2960.2	2579.5	2314.7	2193.7	2181.1
15°	4473.1	4437.8	4261.3	3971.3	3552.8	2927.4	2221.4	1755.0	1480.1	1399.4	1429.7
17.5°	4677.4	4611.8	4352.1	3943.6	3212.4	2221.4	1492.7	1197.7	1112.0	1089.3	1089.3
20°	4869.0	4778.2	4417.6	3822.6	2622.3	1530.5	1106.9	1036.3	1021.2	1006.1	1008.6
22.5°	5060.6	4921.9	4475.6	3552.8	1954.2	1094.3	990.9	968.2	948.1	927.9	925.4
25°	5247.2	5055.6	4498.3	3053.5	1331.3	940.5	905.2	875.0	834.6	811.9	806.9
27.5°	5441.4	5217.0	4483.2	2423.1	970.8	842.2	806.9	764.0	716.1	675.8	675.8
30°	5814.5	5524.6	4430.2	1742.3	817.0	741.3	695.9	627.8	574.9	534.6	532.0
32.5°	6323.9	5925.5	4248.7	1225.4	726.2	653.1	585.0	509.3	453.9	423.6	423.6
35°	6777.7	6328.9	3908.3	902.7	653.1	567.3	484.1	411.0	368.1	348.0	340.4
37.5°	7468.6	6919.0	3439.3	733.8	582.5	491.7	406.0	337.9	302.6	287.4	287.4
40°	8505.0	7640.1	2864.4	643.0	514.4	418.6	337.9	284.9	257.2	239.5	239.5
42.5°	9790.9	8522.6	2281.9	577.4	451.3	360.6	282.4	242.1	216.8	204.2	201.7
45°	11409.7	9453.0	1757.5	516.9	400.9	307.6	239.5	204.2	179.0	171.5	174.0
47.5°	13099.1	10272.5	1361.6	464.0	348.0	259.7	204.2	176.5	158.9	148.8	148.8
50°	14541.4	10837.3	1033.8	403.4	307.6	219.4	179.0	158.9	143.7	138.7	136.2
52.5°	15746.7	11001.2	791.7	350.5	269.8	189.1	158.9	143.7	131.1	123.6	123.6
55°	16772.9	10857.5	620.3	295.0	226.9	163.9	141.2	128.6	113.5	105.9	103.4
57.5°	17373.0	10396.1	474.0	244.6	184.1	136.2	123.6	108.4	90.8	78.2	78.2
60°	17675.6	9725.4	363.1	201.7	141.2	108.4	100.9	80.7	63.0	53.0	50.4
62.5°	17312.5	8835.3	274.8	158.9	105.9	80.7	68.1	58.0	40.3	30.3	30.3
63°	17088.1	8578.1	264.8	151.3	98.3	75.6	63.0	53.0	35.3	27.7	25.2
65°	15577.7	7456.0	216.8	121.0	78.2	53.0	42.9	37.8	25.2	12.6	10.1
67.5°	12370.4	5703.6	171.5	90.8	55.5	37.8	25.2	22.7	7.6	0.0	0.0
70°	8363.8	3683.9	133.6	65.6	37.8	22.7	12.6	10.1	2.5	0.0	0.0
72.5°	4362.2	1888.6	103.4	47.9	22.7	15.1	7.6	2.5	0.0	0.0	0.0
75°	1543.1	643.0	75.6	30.3	15.1	7.6	2.5	0.0	0.0	0.0	0.0
77.5°	466.5	239.5	47.9	22.7	10.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	163.9	88.3	27.7	15.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	80.7	42.9	17.7	12.6	7.6	2.5	0.0	0.0	0.0	0.0	0.0
85°	45.4	27.7	15.1	12.6	7.6	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.8	20.2	15.1	12.6	10.1	5.0	2.5	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)