

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: P453214

Luminaire Tested: **GALN-SA4B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15572 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

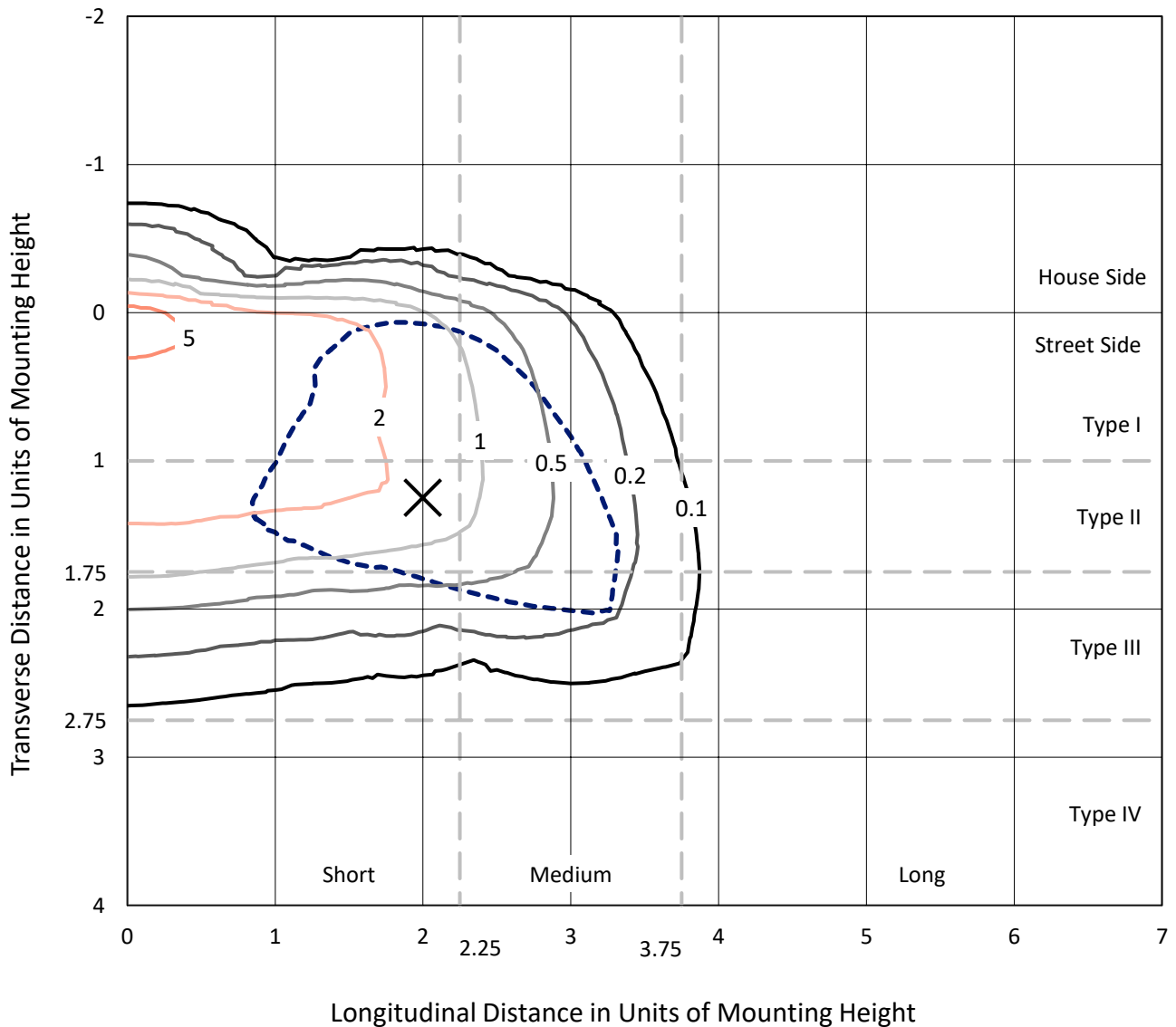
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

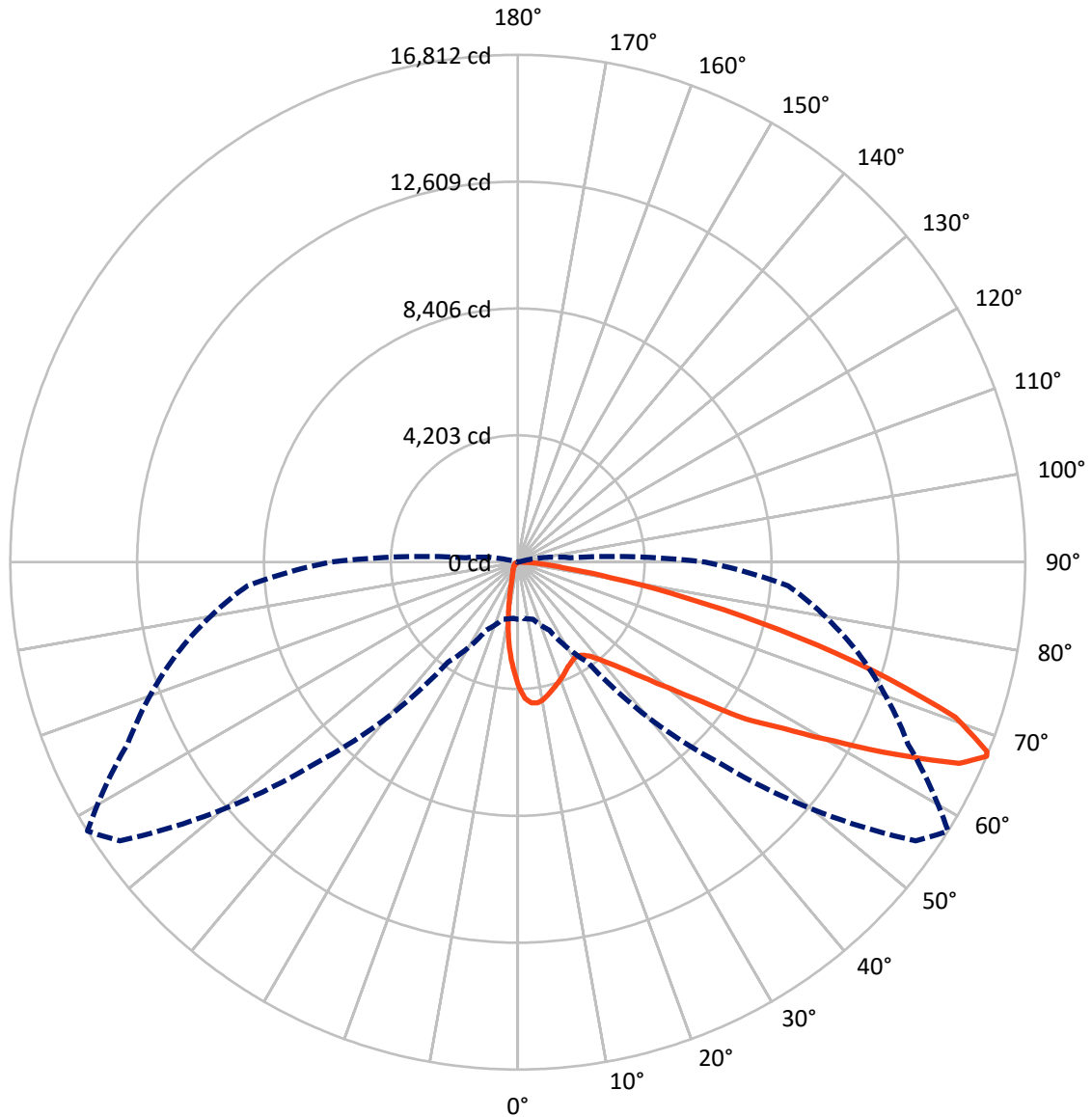
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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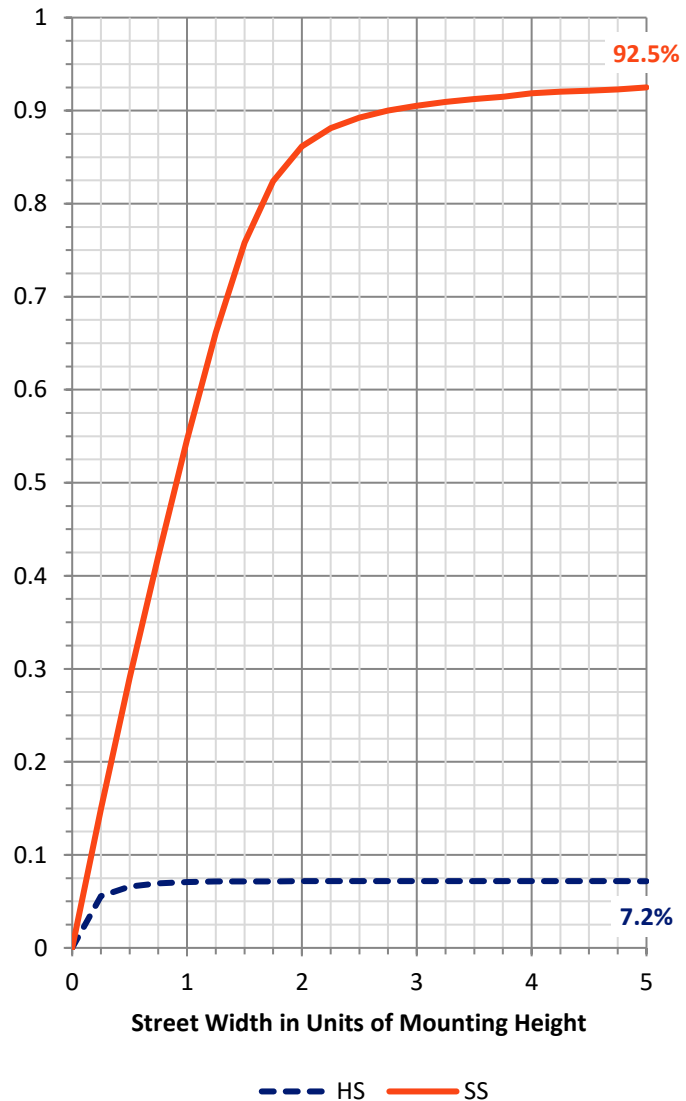
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.8	0.0	1123.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14448.2	0.0	14448.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	15572.0	0.0	15572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	2.2
10°-20°	723.5	4.6
20°-30°	980.4	6.3
30°-40°	1359.7	8.7
40°-50°	2168.5	13.9
50°-60°	3748.5	24.1
60°-70°	4282.0	27.5
70°-80°	1785.2	11.5
80°-90°	189.3	1.2
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°	15572.0	100.0
0°-180°	15572.0	100.0



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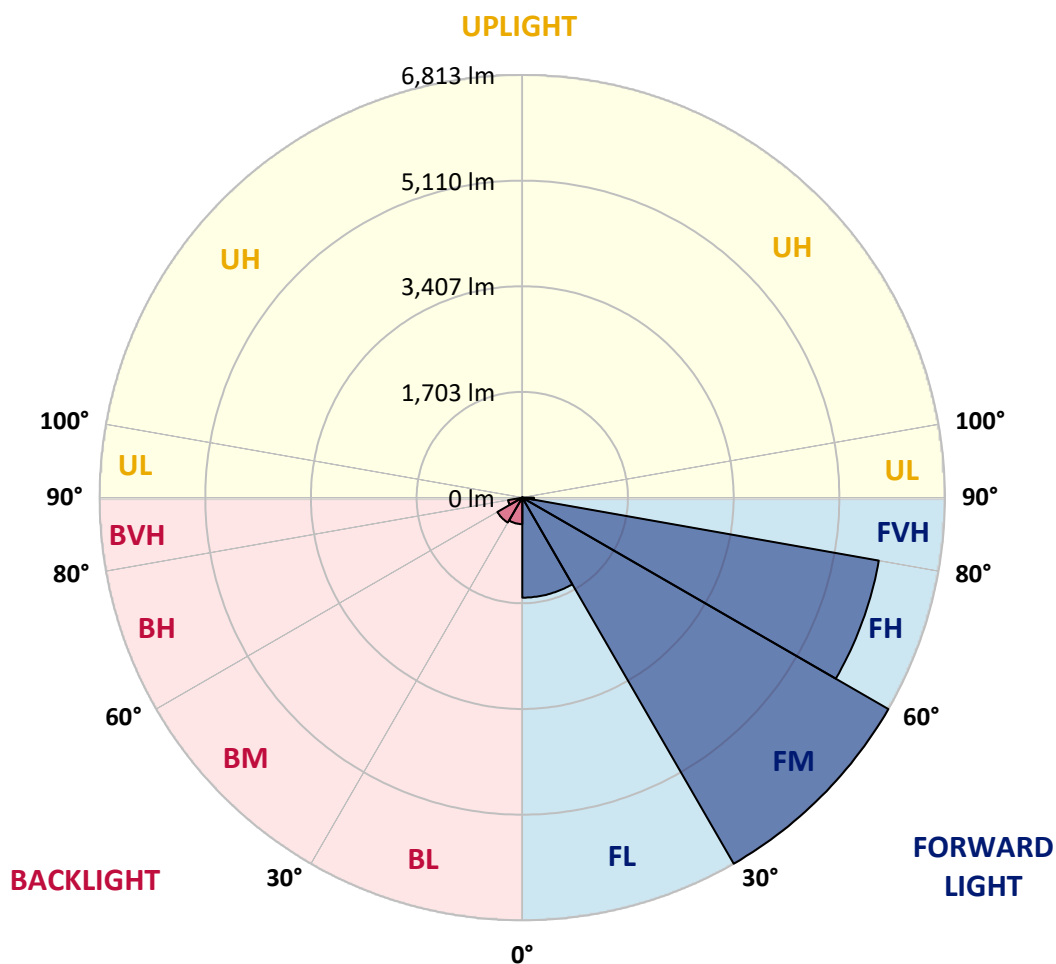
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.1	10.4			
FM (30°-60°)	6813.4	43.8			
FH (60°-80°)	5834.9	37.5			G3/7500
FVH (80°-90°)	187.9	1.2			G2/225
BL (0°-30°)	426.7	2.7	B1/500		
BM (30°-60°)	463.4	3.0	B1/1000		
BH (60°-80°)	232.3	1.5	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: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0
2.5°	4790.8	4798.1	4771.1	4749.2	4693.0	4632.7	4552.6	4509.9	4437.0	4311.1	4171.7
5°	4903.2	4912.6	4908.4	4903.2	4881.4	4823.1	4721.1	4683.7	4576.5	4371.5	4119.7
7.5°	4653.5	4687.8	4692.0	4732.6	4771.1	4776.3	4737.8	4709.7	4610.8	4370.5	4027.1
10°	4322.6	4345.5	4378.8	4425.6	4518.2	4595.2	4632.7	4628.5	4571.3	4338.2	3918.8
12.5°	3988.6	4001.0	4052.0	4132.2	4245.6	4376.7	4476.6	4496.4	4497.4	4299.7	3828.3
15°	3701.4	3696.2	3735.7	3828.3	3987.5	4151.9	4330.9	4362.1	4412.1	4262.2	3744.0
17.5°	3455.8	3482.8	3489.1	3591.1	3737.8	3951.1	4179.0	4234.1	4334.0	4230.0	3674.3
20°	3303.9	3318.4	3331.9	3389.2	3521.3	3746.1	4036.4	4112.4	4261.2	4200.8	3596.3
22.5°	3259.1	3268.5	3257.0	3274.7	3368.4	3568.2	3881.4	3982.3	4191.5	4173.8	3532.8
25°	3293.4	3302.8	3275.8	3254.9	3287.2	3423.5	3731.5	3854.3	4135.3	4168.6	3484.9
27.5°	3376.7	3394.4	3356.9	3319.5	3300.7	3345.5	3613.9	3756.5	4096.8	4193.6	3463.1
30°	3506.8	3517.2	3489.1	3443.3	3400.6	3355.9	3552.6	3688.9	4086.4	4251.8	3461.0
32.5°	3648.3	3670.1	3654.5	3624.4	3569.2	3463.1	3570.2	3690.9	4111.3	4336.1	3487.0
35°	3823.1	3848.1	3862.6	3856.4	3785.6	3653.5	3682.6	3784.6	4177.9	4491.2	3557.8
37.5°	3994.8	4016.7	4098.9	4127.0	4064.5	3939.6	3901.1	3968.8	4324.7	4694.1	3685.7
40°	4191.5	4220.6	4336.1	4443.3	4413.1	4282.0	4211.2	4267.4	4549.4	5000.0	3928.2
42.5°	4379.8	4431.8	4607.7	4797.1	4825.2	4678.5	4631.6	4650.4	4882.4	5440.2	4266.4
45°	4647.2	4696.2	4923.0	5180.0	5312.2	5197.7	5149.8	5146.7	5339.2	6059.3	4814.8
47.5°	5033.3	5077.0	5344.4	5598.3	5833.5	5849.1	5758.6	5789.8	5913.6	6783.6	5487.0
50°	5506.8	5609.8	5785.6	6050.0	6364.2	6618.1	6646.2	6604.6	6710.7	7622.3	6294.5
52.5°	6194.6	6234.1	6395.4	6612.9	6981.3	7412.1	7746.1	7688.9	7655.6	8421.4	7110.3
55°	6707.6	6760.7	7011.5	7310.1	7850.2	8418.3	9142.6	9162.3	8741.9	9189.4	7908.4
57.5°	6552.6	6633.7	7013.5	7613.9	8801.3	9839.8	10378.8	10392.3	9747.1	9935.5	8809.6
60°	5756.5	5795.0	6339.2	7140.5	8882.4	11379.8	12132.2	12022.9	10770.0	10770.0	9605.6
62.5°	4082.2	4142.6	4583.8	5762.8	8021.9	11914.7	14232.1	14006.3	12179.0	11568.2	10080.1
65°	2608.7	2550.5	2842.9	3637.9	5976.1	11124.9	16060.4	16073.9	13504.7	11887.6	9821.0
67°	1889.7	1866.8	1951.1	2487.0	4052.0	9351.7	16098.9	16811.7	14266.4	11685.8	8992.7
67.5°	1728.4	1746.1	1807.5	2243.5	3681.6	8509.9	15924.0	16768.0	14438.1	11564.0	8693.0
70°	1310.1	1279.9	1346.5	1586.9	2207.1	5368.4	13698.2	15378.8	14224.8	10355.9	6945.9
72.5°	963.6	960.5	1053.1	1297.6	1699.3	2859.5	10283.0	12330.9	11621.2	7885.5	4373.6
75°	650.4	679.5	827.3	1084.3	1540.1	1854.3	7010.4	8945.9	8067.6	4477.6	1787.7
77.5°	370.4	372.5	532.8	871.0	1382.9	1492.2	4154.0	5699.3	4270.6	1489.1	530.7
80°	160.2	175.9	264.3	632.7	1146.7	1321.5	2381.9	3132.2	1727.4	315.3	171.7
82.5°	59.3	69.7	116.5	389.2	836.6	1088.5	1439.1	1495.3	585.8	111.3	107.2
85°	0.0	2.1	42.7	182.1	436.0	486.0	961.5	886.6	259.1	53.1	69.7
87.5°	0.0	0.0	0.0	18.7	57.2	181.1	298.6	333.0	62.4	18.7	16.6
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°	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0	4128.0
2.5°	4096.8	4029.1	3859.5	3689.9	3564.0	3458.9	3300.7	3214.4	3168.6	3100.9	3105.1
5°	3993.8	3856.4	3557.8	3248.7	2999.0	2755.5	2464.1	2346.5	2247.7	2191.5	2154.0
7.5°	3840.8	3637.9	3195.6	2783.6	2399.6	1974.0	1654.5	1441.2	1297.6	1244.5	1193.5
10°	3673.3	3403.7	2828.3	2257.0	1724.2	1285.1	1014.6	818.9	749.2	684.7	690.9
12.5°	3518.2	3190.4	2491.2	1781.5	1208.1	816.9	636.8	556.7	533.8	526.5	526.5
15°	3391.3	2986.5	2129.0	1339.2	828.3	586.9	509.9	488.0	479.7	477.6	477.6
17.5°	3256.0	2792.9	1802.3	989.6	602.5	491.2	465.1	450.6	447.5	445.4	445.4
20°	3135.3	2598.3	1492.2	736.7	487.0	442.2	425.6	416.2	413.1	411.0	412.1
22.5°	3020.8	2425.6	1200.8	556.7	428.7	402.7	386.1	376.7	370.4	365.2	366.3
25°	2918.8	2259.1	965.7	455.8	386.1	363.2	346.5	333.0	319.5	313.2	312.2
27.5°	2847.0	2113.4	752.3	390.2	347.6	322.6	301.8	285.1	267.4	258.1	256.0
30°	2787.7	1965.7	595.2	344.4	309.1	285.1	259.1	235.2	216.4	207.1	202.9
32.5°	2749.2	1825.2	469.3	307.0	276.8	247.7	218.5	194.6	173.8	164.4	162.3
35°	2743.0	1707.6	384.0	275.8	247.7	216.4	186.3	160.2	142.6	133.2	131.1
37.5°	2787.7	1617.1	321.5	250.8	223.7	189.4	156.1	132.2	116.5	109.3	108.2
40°	2907.4	1559.8	278.9	230.0	201.9	164.4	133.2	112.4	96.8	89.5	89.5
42.5°	3135.3	1561.9	250.8	210.2	180.0	140.5	113.4	93.7	80.1	73.9	71.8
45°	3491.2	1632.7	226.8	190.4	159.2	121.7	96.8	77.0	63.5	58.3	58.3
47.5°	3967.7	1773.2	206.0	170.7	140.5	104.1	82.2	62.4	51.0	45.8	45.8
50°	4591.1	1999.0	188.3	154.0	124.9	89.5	66.6	51.0	39.5	35.4	34.3
52.5°	5242.5	2277.8	167.5	139.4	107.2	76.0	54.1	39.5	30.2	27.1	26.0
55°	5961.5	2550.5	147.8	124.9	87.4	63.5	42.7	31.2	21.9	18.7	18.7
57.5°	6686.8	2817.9	123.8	104.1	68.7	46.8	33.3	22.9	14.6	11.4	11.4
60°	7300.7	2904.3	105.1	84.3	52.0	33.3	23.9	14.6	8.3	5.2	5.2
62.5°	7385.0	2612.9	88.4	64.5	37.5	22.9	12.5	8.3	3.1	2.1	2.1
65°	6927.2	2122.8	73.9	48.9	25.0	11.4	5.2	3.1	1.0	0.0	0.0
67°	6207.1	1721.1	60.4	36.4	17.7	7.3	3.1	1.0	0.0	0.0	0.0
67.5°	6022.9	1641.0	58.3	34.3	15.6	6.2	2.1	1.0	0.0	0.0	0.0
70°	4726.3	1228.9	41.6	20.8	9.4	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	2937.6	695.1	30.2	12.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	1110.3	243.5	20.8	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	345.5	92.6	12.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.5	35.4	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.8	14.6	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.7	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	2.1	1.0	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)