

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: P454983

Luminaire Tested: **GALN-SA6A-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454983
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-SA6A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 16491 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

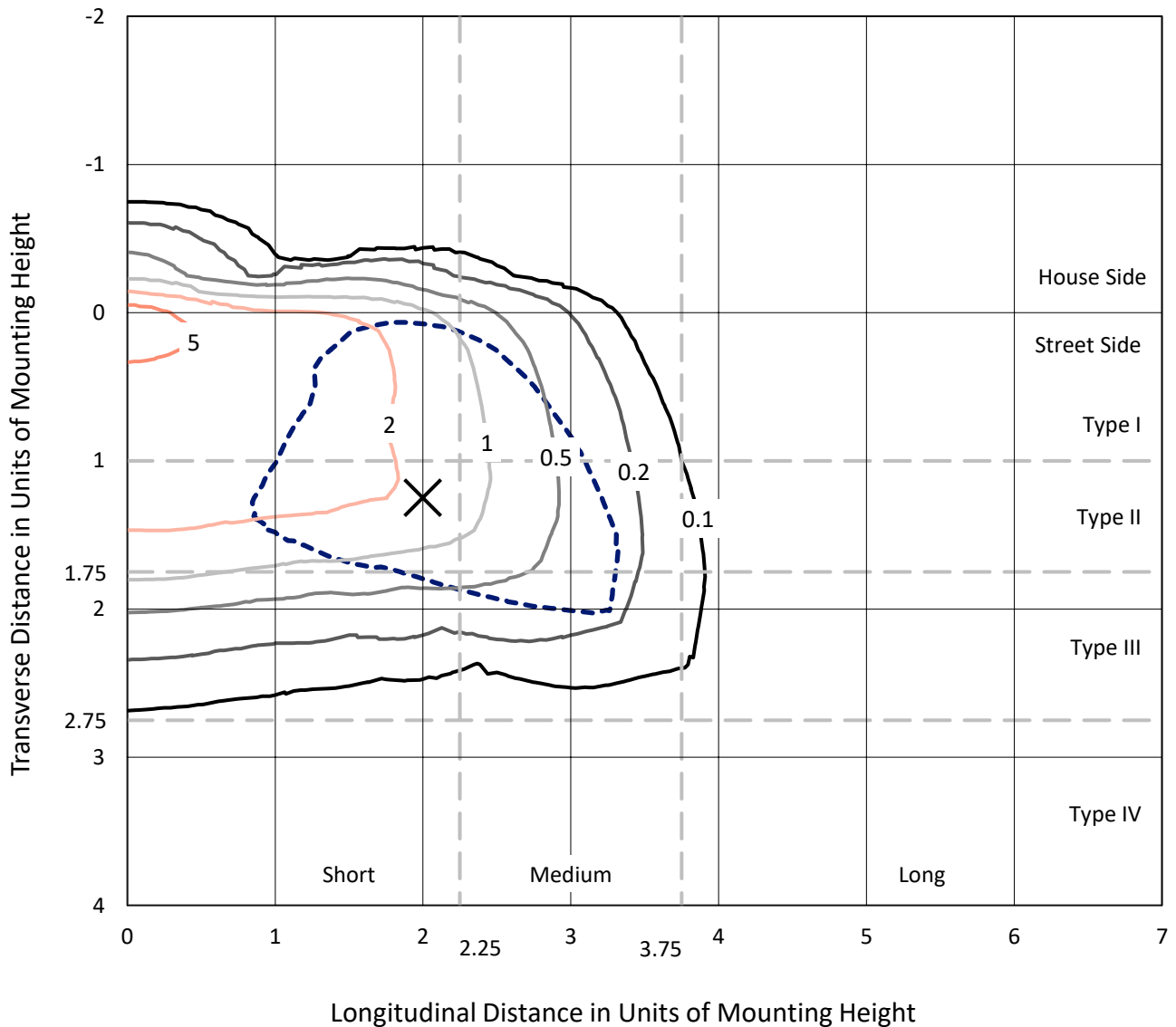
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

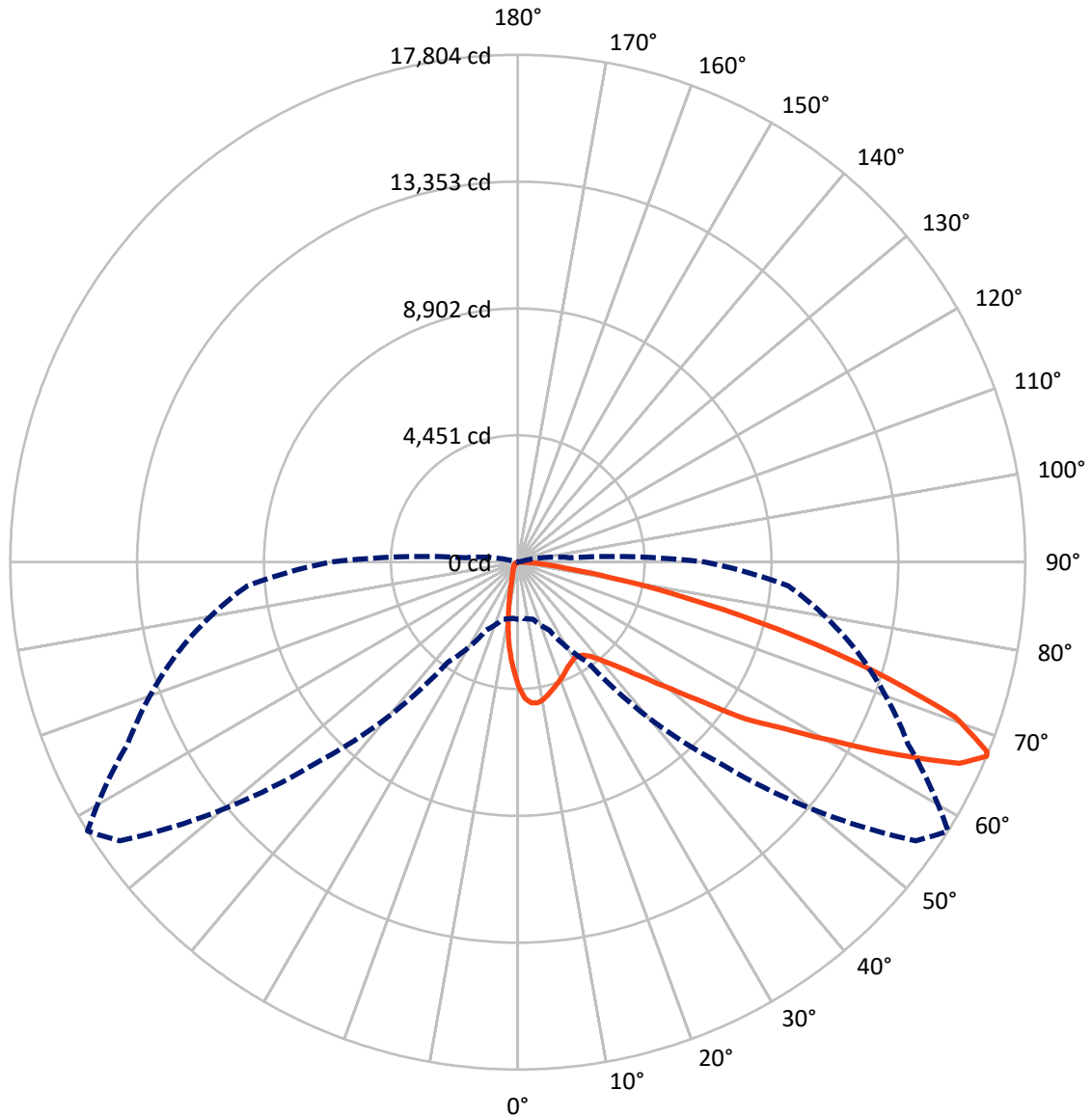
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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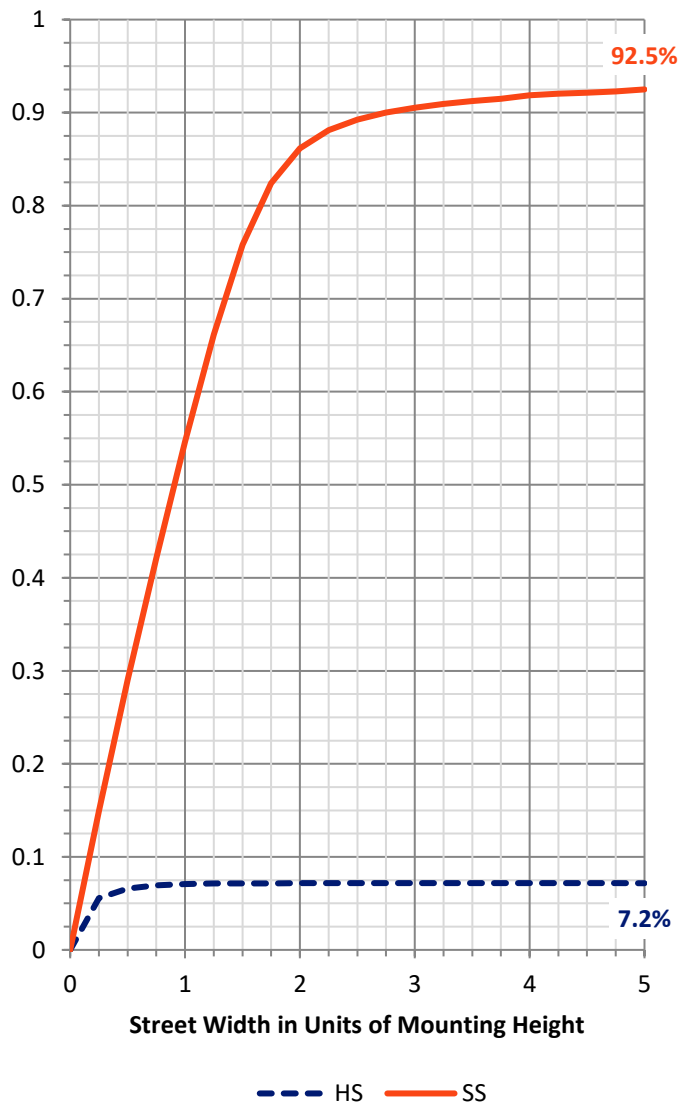
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.1	0.0	1190.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15300.9	0.0	15300.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	16491.0	0.0	16491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	2.2
10°-20°	766.2	4.6
20°-30°	1038.2	6.3
30°-40°	1439.9	8.7
40°-50°	2296.5	13.9
50°-60°	3969.7	24.1
60°-70°	4534.7	27.5
70°-80°	1890.5	11.5
80°-90°	200.4	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°	16491.0	100.0
0°-180°	16491.0	100.0

Coefficient of Utilization



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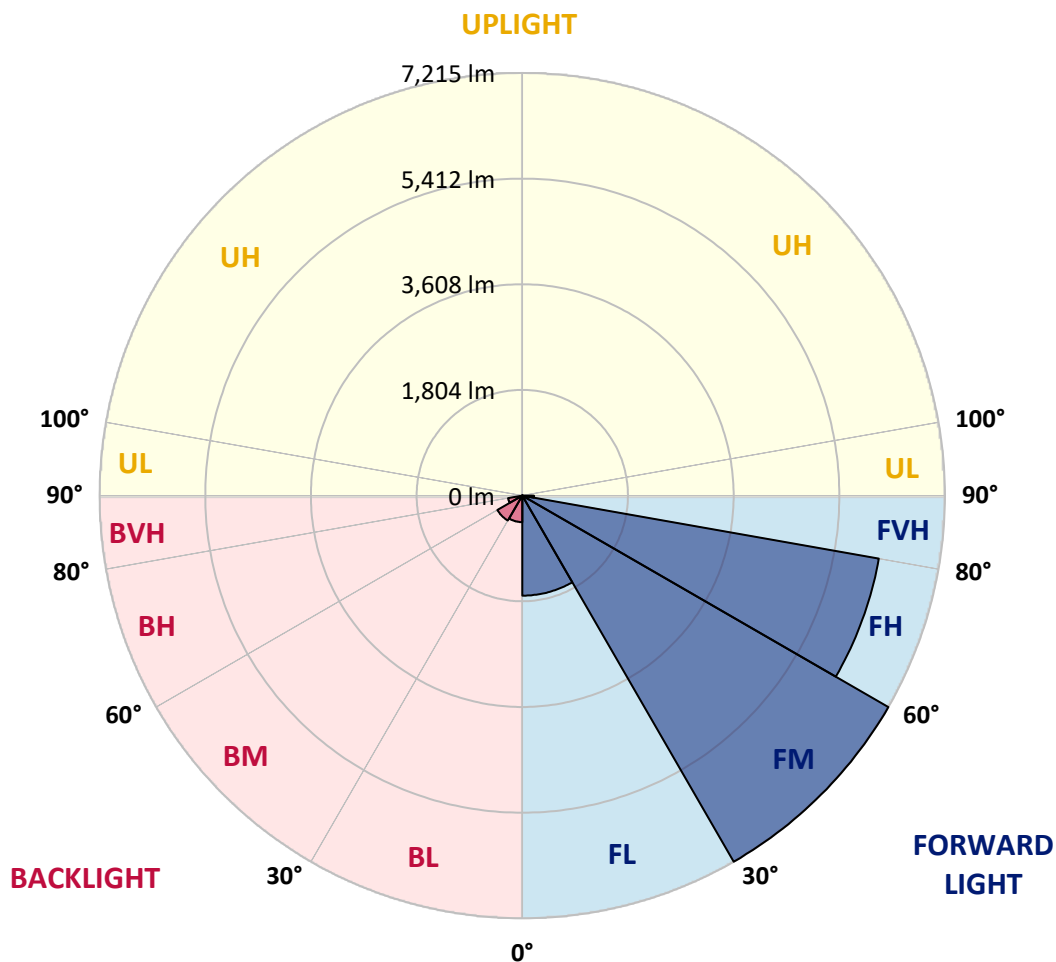
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.2	10.4			
FM (30°-60°)	7215.5	43.8			
FH (60°-80°)	6179.2	37.5			G3/7500
FVH (80°-90°)	199.0	1.2			G2/225
BL (0°-30°)	451.9	2.7	B1/500		
BM (30°-60°)	490.7	3.0	B1/1000		
BH (60°-80°)	246.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.5	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°	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6
2.5°	5073.6	5081.3	5052.6	5029.5	4970.0	4906.1	4821.2	4776.0	4698.9	4565.6	4417.9
5°	5192.6	5202.5	5198.1	5192.6	5169.5	5107.7	4999.7	4960.1	4846.6	4629.5	4362.8
7.5°	4928.1	4964.5	4968.9	5011.9	5052.6	5058.2	5017.4	4987.6	4882.9	4628.4	4264.7
10°	4577.7	4601.9	4637.2	4686.8	4784.9	4866.4	4906.1	4901.7	4841.1	4594.2	4150.1
12.5°	4223.9	4237.2	4291.2	4376.0	4496.1	4635.0	4740.8	4761.7	4762.8	4553.4	4054.2
15°	3919.8	3914.3	3956.2	4054.2	4222.8	4397.0	4586.5	4619.6	4672.5	4513.8	3965.0
17.5°	3659.7	3688.4	3695.0	3803.0	3958.4	4184.3	4425.6	4484.0	4589.8	4479.6	3891.1
20°	3498.8	3514.3	3528.6	3589.2	3729.1	3967.2	4274.6	4355.1	4512.7	4448.8	3808.5
22.5°	3451.4	3461.4	3449.2	3468.0	3567.2	3778.7	4110.4	4217.3	4438.8	4420.1	3741.3
25°	3487.8	3497.7	3469.1	3447.0	3481.2	3625.6	3951.8	4081.8	4379.3	4414.6	3690.6
27.5°	3576.0	3594.7	3555.0	3515.4	3495.5	3542.9	3827.2	3978.2	4338.6	4441.0	3667.4
30°	3713.7	3724.7	3695.0	3646.5	3601.3	3553.9	3762.2	3906.6	4327.5	4502.8	3665.2
32.5°	3863.6	3886.7	3870.2	3838.2	3779.8	3667.4	3780.9	3908.8	4354.0	4592.0	3692.8
35°	4048.7	4075.2	4090.6	4084.0	4009.1	3869.1	3900.0	4008.0	4424.5	4756.2	3767.7
37.5°	4230.6	4253.7	4340.8	4370.5	4304.4	4172.2	4131.4	4203.0	4579.9	4971.1	3903.3
40°	4438.8	4469.7	4592.0	4705.5	4673.6	4534.7	4459.8	4519.3	4817.9	5295.1	4160.0
42.5°	4638.3	4693.4	4879.6	5080.2	5109.9	4954.6	4905.0	4924.8	5170.6	5761.2	4518.2
45°	4921.5	4973.3	5213.5	5485.7	5625.7	5504.5	5453.8	5450.5	5654.3	6416.9	5098.9
47.5°	5330.3	5376.6	5659.8	5928.7	6177.8	6194.3	6098.4	6131.5	6262.6	7183.9	5810.8
50°	5831.8	5940.9	6127.1	6407.0	6739.8	7008.7	7038.4	6994.4	7106.8	8072.1	6666.0
52.5°	6560.2	6602.0	6772.9	7003.2	7393.3	7849.5	8203.2	8142.6	8107.4	8918.4	7529.9
55°	7103.5	7159.7	7425.2	7741.5	8313.4	8915.1	9682.1	9703.1	9257.9	9731.7	8375.2
57.5°	6939.3	7025.2	7427.4	8063.3	9320.7	10420.5	10991.3	11005.6	10322.4	10521.8	9329.5
60°	6096.2	6137.0	6713.4	7561.9	9406.6	12051.4	12848.2	12732.4	11405.6	11405.6	10172.5
62.5°	4323.1	4387.0	4854.3	6102.8	8495.3	12617.8	15072.0	14832.8	12897.7	12250.9	10675.0
65°	2762.7	2701.0	3010.6	3852.6	6328.8	11781.4	17008.2	17022.5	14301.7	12589.2	10400.6
67°	2001.2	1977.0	2066.2	2633.8	4291.2	9903.6	17049.0	17803.8	15108.3	12375.4	9523.4
67.5°	1830.4	1849.1	1914.2	2375.9	3898.9	9012.1	16863.8	17757.5	15290.2	12246.5	9206.1
70°	1387.4	1355.5	1426.0	1680.5	2337.3	5685.2	14506.7	16286.4	15064.3	10967.1	7355.8
72.5°	1020.4	1017.1	1115.2	1374.2	1799.6	3028.3	10889.9	13058.6	12307.1	8350.9	4631.7
75°	688.7	719.6	876.1	1148.3	1631.0	1963.8	7424.1	9473.8	8543.8	4741.9	1893.2
77.5°	392.3	394.5	564.2	922.4	1464.6	1580.3	4399.2	6035.6	4522.6	1577.0	562.0
80°	169.7	186.2	279.9	670.0	1214.4	1399.5	2522.5	3317.0	1829.3	333.9	181.8
82.5°	62.8	73.8	123.4	412.1	886.0	1152.7	1524.1	1583.6	620.4	117.9	113.5
85°	0.0	2.2	45.2	192.8	461.7	514.6	1018.2	938.9	274.4	56.2	73.8
87.5°	0.0	0.0	0.0	19.8	60.6	191.7	316.3	352.6	66.1	19.8	17.6
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°	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6	4371.6
2.5°	4338.6	4266.9	4087.3	3907.7	3774.3	3663.0	3495.5	3404.1	3355.6	3283.9	3288.4
5°	4229.5	4084.0	3767.7	3440.4	3175.9	2918.1	2609.5	2485.0	2380.3	2320.8	2281.1
7.5°	4067.5	3852.6	3384.2	2947.8	2541.2	2090.5	1752.2	1526.3	1374.2	1318.0	1264.0
10°	3890.0	3604.6	2995.2	2390.2	1826.0	1361.0	1074.4	867.3	793.4	725.1	731.7
12.5°	3725.8	3378.7	2638.2	1886.6	1279.4	865.1	674.4	589.6	565.3	557.6	557.6
15°	3591.4	3162.7	2254.7	1418.3	877.2	621.5	540.0	516.8	508.0	505.8	505.8
17.5°	3448.1	2957.8	1908.7	1048.0	638.1	520.1	492.6	477.2	473.9	471.7	471.7
20°	3320.3	2751.7	1580.3	780.2	515.7	468.3	450.7	440.8	437.5	435.3	436.4
22.5°	3199.1	2568.7	1271.7	589.6	454.0	426.5	408.8	398.9	392.3	386.8	387.9
25°	3091.1	2392.4	1022.7	482.7	408.8	384.6	367.0	352.6	338.3	331.7	330.6
27.5°	3015.1	2238.2	796.7	413.2	368.1	341.6	319.6	301.9	283.2	273.3	271.1
30°	2952.2	2081.7	630.3	364.8	327.3	301.9	274.4	249.1	229.2	219.3	214.9
32.5°	2911.5	1932.9	497.0	325.1	293.1	262.3	231.4	206.1	184.0	174.1	171.9
35°	2904.9	1808.4	406.6	292.0	262.3	229.2	197.3	169.7	151.0	141.1	138.9
37.5°	2952.2	1712.5	340.5	265.6	236.9	200.6	165.3	140.0	123.4	115.7	114.6
40°	3079.0	1651.9	295.3	243.5	213.8	174.1	141.1	119.0	102.5	94.8	94.8
42.5°	3320.3	1654.1	265.6	222.6	190.6	148.8	120.1	99.2	84.9	78.2	76.0
45°	3697.2	1729.0	240.2	201.7	168.6	128.9	102.5	81.5	67.2	61.7	61.7
47.5°	4201.9	1877.8	218.2	180.7	148.8	110.2	87.1	66.1	54.0	48.5	48.5
50°	4862.0	2116.9	199.5	163.1	132.2	94.8	70.5	54.0	41.9	37.5	36.4
52.5°	5551.8	2412.3	177.4	147.7	113.5	80.4	57.3	41.9	32.0	28.7	27.5
55°	6313.3	2701.0	156.5	132.2	92.6	67.2	45.2	33.1	23.1	19.8	19.8
57.5°	7081.4	2984.2	131.1	110.2	72.7	49.6	35.3	24.2	15.4	12.1	12.1
60°	7731.6	3075.7	111.3	89.3	55.1	35.3	25.3	15.4	8.8	5.5	5.5
62.5°	7820.9	2767.1	93.7	68.3	39.7	24.2	13.2	8.8	3.3	2.2	2.2
65°	7336.0	2248.1	78.2	51.8	26.4	12.1	5.5	3.3	1.1	0.0	0.0
67°	6573.4	1822.7	63.9	38.6	18.7	7.7	3.3	1.1	0.0	0.0	0.0
67.5°	6378.3	1737.8	61.7	36.4	16.5	6.6	2.2	1.1	0.0	0.0	0.0
70°	5005.3	1301.5	44.1	22.0	9.9	4.4	0.0	0.0	0.0	0.0	0.0
72.5°	3110.9	736.1	32.0	13.2	6.6	2.2	0.0	0.0	0.0	0.0	0.0
75°	1175.8	257.9	22.0	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	365.9	98.1	13.2	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	123.4	37.5	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.0	15.4	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.4	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	2.2	1.1	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)