

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: P452605

Luminaire Tested: **GALN-SA3C-750-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452605
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-SA3C-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA 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: 17361 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

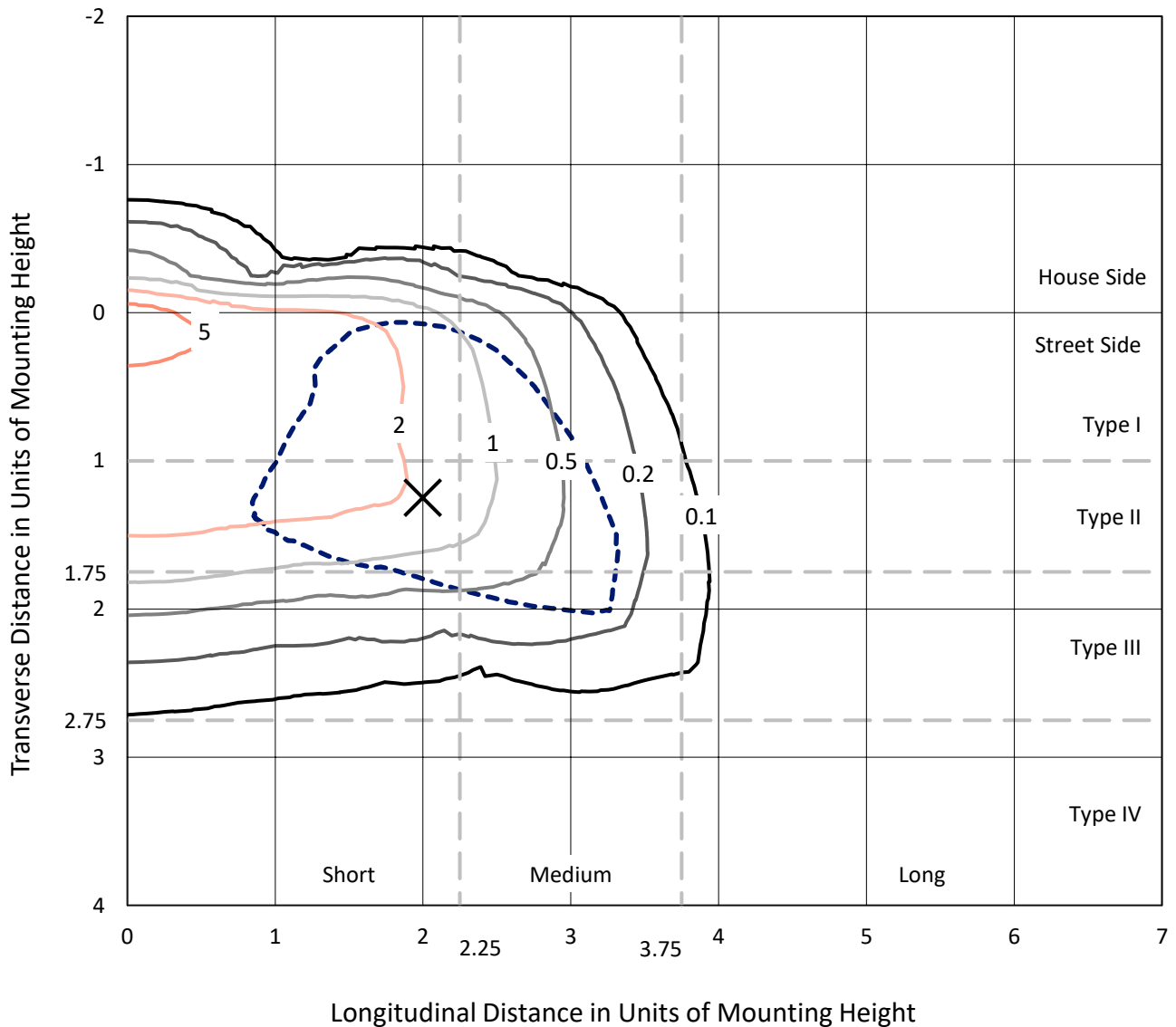
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

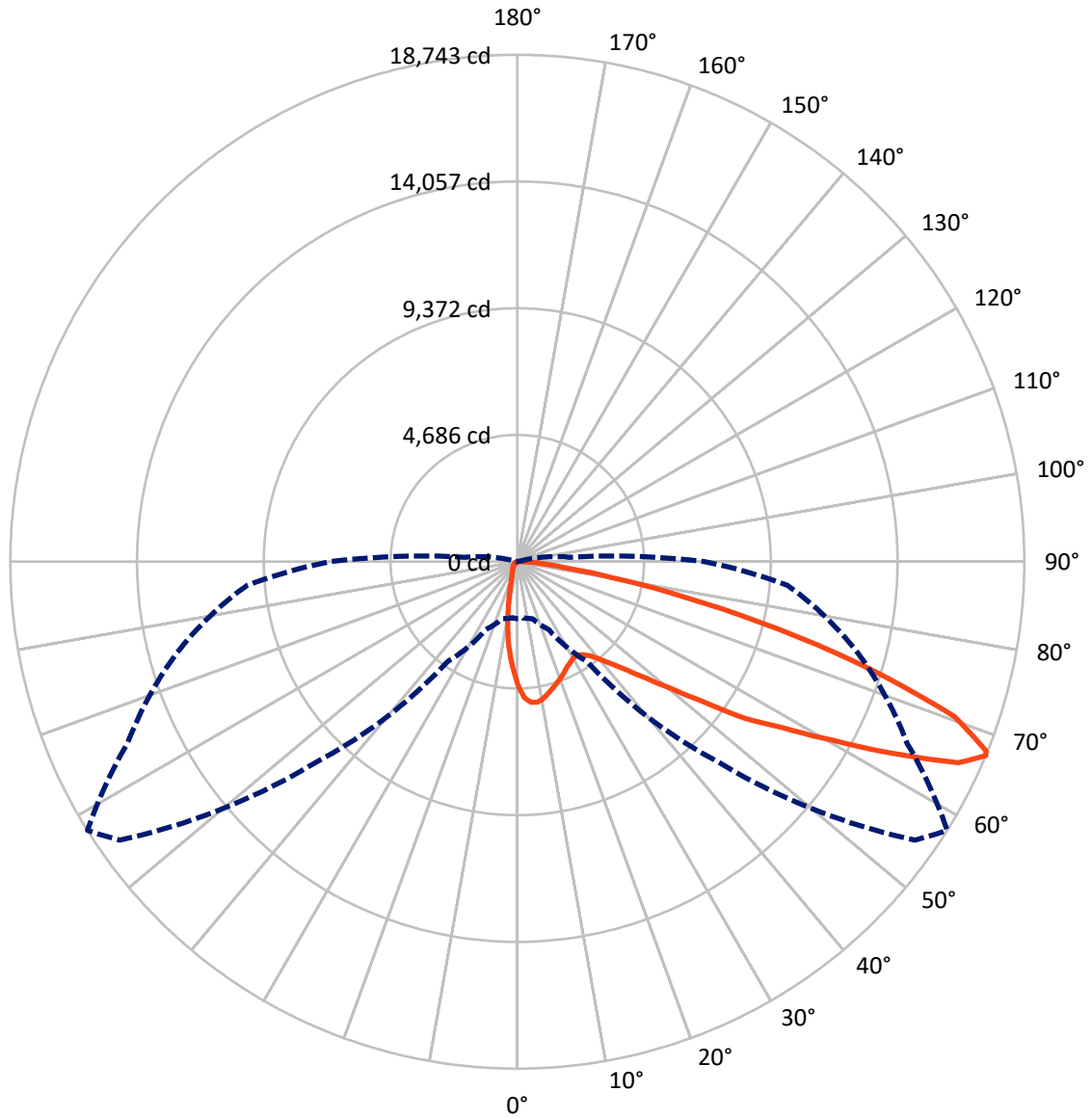
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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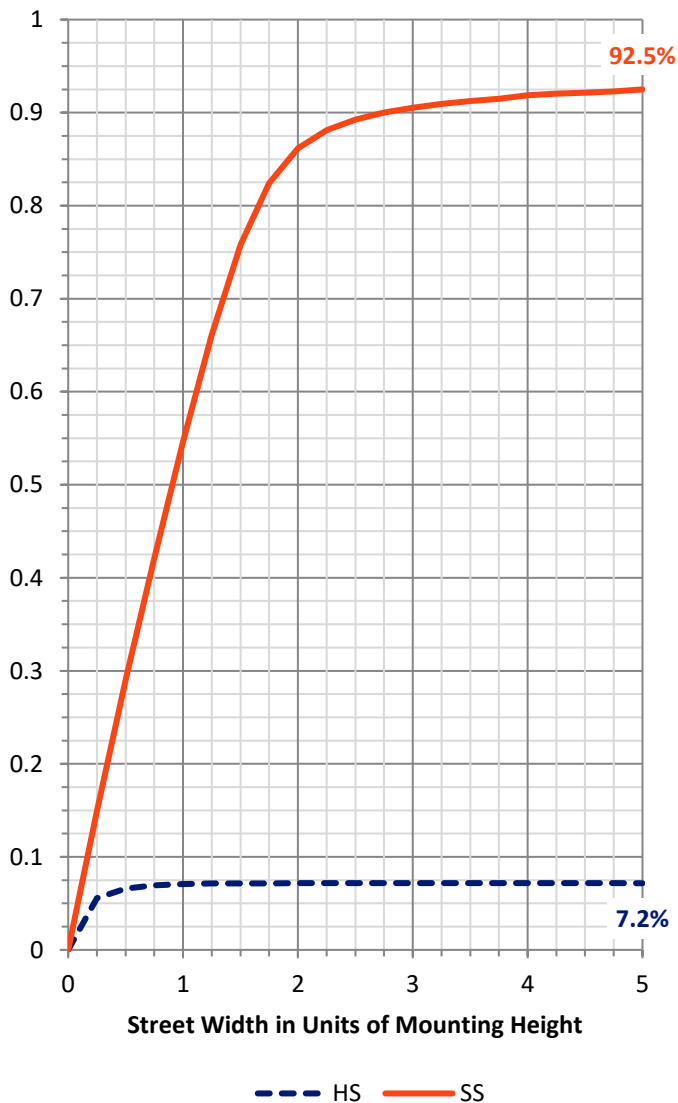
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.9	0.0	1252.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16108.1	0.0	16108.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	17361.0	0.0	17361.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	2.2
10°-20°	806.6	4.6
20°-30°	1093.0	6.3
30°-40°	1515.9	8.7
40°-50°	2417.7	13.9
50°-60°	4179.2	24.1
60°-70°	4773.9	27.5
70°-80°	1990.3	11.5
80°-90°	211.0	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°	17361.0	100.0
0°-180°	17361.0	100.0



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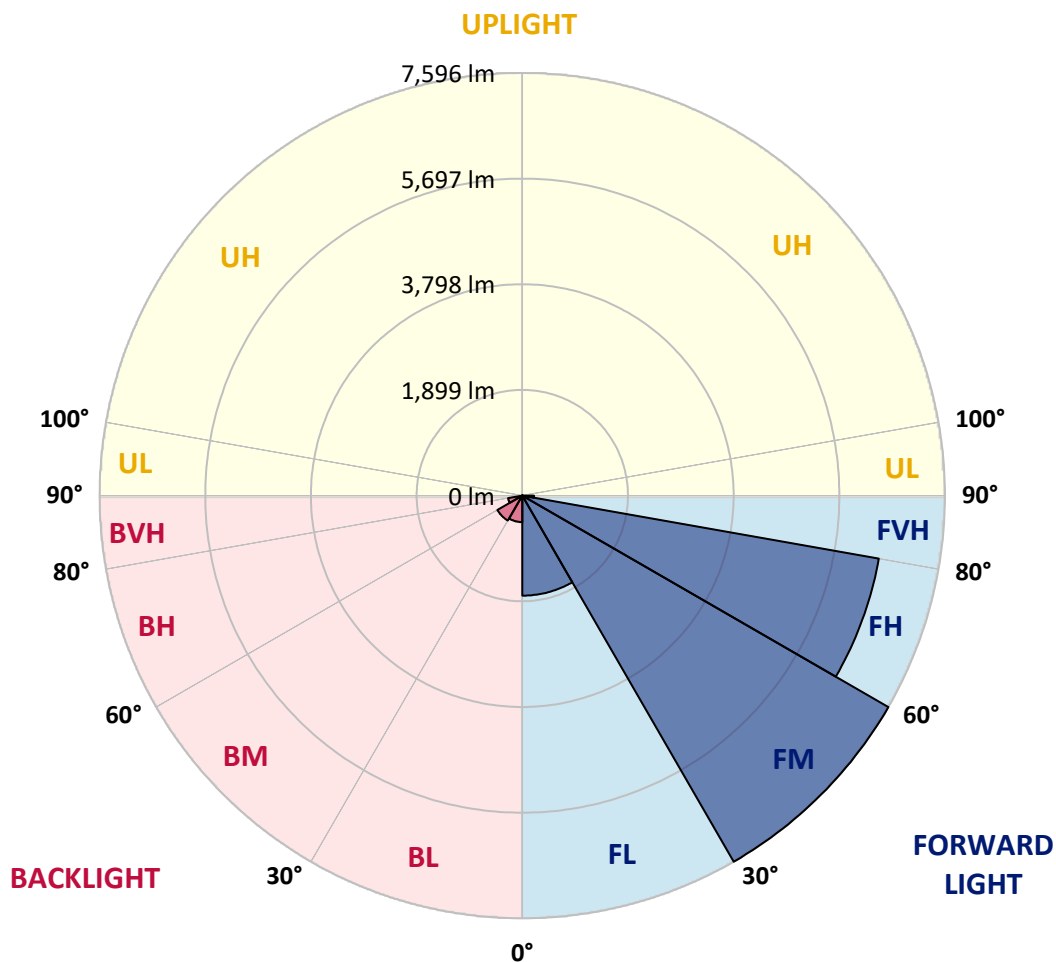
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.3	10.4			
FM (30°-60°)	7596.2	43.8			
FH (60°-80°)	6505.2	37.5			G3/7500
FVH (80°-90°)	209.5	1.2			G2/225
BL (0°-30°)	475.7	2.7	B1/500		
BM (30°-60°)	516.6	3.0	B1/1000		
BH (60°-80°)	259.0	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°	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2
2.5°	5341.2	5349.4	5319.2	5294.8	5232.2	5164.9	5075.6	5028.0	4946.8	4806.4	4651.0
5°	5466.5	5477.0	5472.3	5466.5	5442.2	5377.2	5263.5	5221.8	5102.3	4873.7	4593.0
7.5°	5188.1	5226.4	5231.0	5276.3	5319.2	5325.0	5282.1	5250.8	5140.5	4872.6	4489.7
10°	4819.2	4844.7	4881.8	4934.0	5037.3	5123.1	5164.9	5160.3	5096.5	4836.6	4369.1
12.5°	4446.8	4460.7	4517.6	4606.9	4733.3	4879.5	4990.9	5012.9	5014.1	4793.7	4268.1
15°	4126.6	4120.8	4164.9	4268.1	4445.6	4628.9	4828.5	4863.3	4919.0	4751.9	4174.2
17.5°	3852.8	3883.0	3889.9	4003.6	4167.2	4405.0	4659.1	4720.6	4831.9	4715.9	4096.4
20°	3683.4	3699.7	3714.7	3778.5	3925.9	4176.5	4500.2	4584.8	4750.7	4683.5	4009.4
22.5°	3633.5	3644.0	3631.2	3650.9	3755.3	3978.1	4327.3	4439.8	4673.0	4653.3	3938.6
25°	3671.8	3682.3	3652.1	3628.9	3664.9	3816.8	4160.2	4297.1	4610.4	4647.5	3885.3
27.5°	3764.6	3784.3	3742.6	3700.8	3679.9	3729.8	4029.1	4188.1	4567.4	4675.3	3860.9
30°	3909.6	3921.2	3889.9	3838.9	3791.3	3741.4	3960.7	4112.7	4555.8	4740.3	3858.6
32.5°	4067.4	4091.8	4074.4	4040.7	3979.3	3860.9	3980.4	4115.0	4583.7	4834.3	3887.6
35°	4262.3	4290.2	4306.4	4299.4	4220.6	4073.2	4105.7	4219.4	4657.9	5007.1	3966.5
37.5°	4453.7	4478.1	4569.8	4601.1	4531.5	4392.3	4349.3	4424.7	4821.5	5233.4	4109.2
40°	4673.0	4705.5	4834.3	4953.8	4920.1	4773.9	4695.1	4757.7	5072.1	5574.4	4379.5
42.5°	4883.0	4941.0	5137.1	5348.2	5379.5	5216.0	5163.7	5184.6	5443.3	6065.2	4756.5
45°	5181.1	5235.7	5488.6	5775.1	5922.5	5794.9	5741.5	5738.0	5952.6	6755.4	5367.9
47.5°	5611.6	5660.3	5958.4	6241.5	6503.7	6521.1	6420.2	6455.0	6593.0	7562.9	6117.4
50°	6139.4	6254.3	6450.3	6745.0	7095.4	7378.4	7409.8	7363.4	7481.7	8498.0	7017.6
52.5°	6906.3	6950.3	7130.2	7372.6	7783.3	8263.6	8636.0	8572.2	8535.1	9388.9	7927.2
55°	7478.2	7537.4	7817.0	8149.9	8752.0	9385.5	10192.9	10215.0	9746.3	10245.1	8817.0
57.5°	7305.3	7395.8	7819.3	8488.7	9812.4	10970.2	11571.2	11586.2	10867.0	11076.9	9821.7
60°	6417.8	6460.8	7067.5	7960.8	9902.9	12687.2	13526.0	13404.2	12007.4	12007.4	10709.2
62.5°	4551.2	4618.5	5110.4	6424.8	8943.5	13283.5	15867.1	15615.4	13578.2	12897.2	11238.2
65°	2908.4	2843.5	3169.5	4055.8	6662.6	12403.0	17905.5	17920.6	15056.2	13253.3	10949.3
67°	2106.8	2081.3	2175.2	2772.7	4517.6	10426.1	17948.4	18743.1	15905.4	13028.3	10025.9
67.5°	1927.0	1946.7	2015.1	2501.2	4104.5	9487.6	17753.5	18694.4	16096.8	12892.5	9691.7
70°	1460.6	1427.0	1501.2	1769.2	2460.6	5985.1	15272.0	17145.6	15859.0	11545.6	7743.9
72.5°	1074.3	1070.8	1174.1	1446.7	1894.5	3188.0	11464.4	13747.6	12956.3	8791.5	4876.0
75°	725.1	757.6	922.3	1208.9	1717.0	2067.4	7815.8	9973.7	8994.5	4992.0	1993.1
77.5°	413.0	415.3	594.0	971.0	1541.8	1663.6	4631.2	6354.0	4761.2	1660.1	591.7
80°	178.7	196.1	294.7	705.4	1278.5	1473.4	2655.5	3492.0	1925.8	351.5	191.4
82.5°	66.1	77.7	129.9	433.9	932.7	1213.5	1604.5	1667.1	653.2	124.1	119.5
85°	0.0	2.3	47.6	203.0	486.1	541.8	1072.0	988.4	288.9	59.2	77.7
87.5°	0.0	0.0	0.0	20.9	63.8	201.9	333.0	371.2	69.6	20.9	18.6
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°	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2	4602.2
2.5°	4567.4	4492.0	4302.9	4113.8	3973.5	3856.3	3679.9	3583.6	3532.6	3457.2	3461.8
5°	4452.6	4299.4	3966.5	3621.9	3343.5	3072.0	2747.2	2616.1	2505.9	2443.2	2401.5
7.5°	4282.0	4055.8	3562.8	3103.4	2675.3	2200.8	1844.6	1606.8	1446.7	1387.5	1330.7
10°	4095.3	3794.8	3153.2	2516.3	1922.3	1432.8	1131.1	913.0	835.3	763.4	770.3
12.5°	3922.4	3557.0	2777.4	1986.1	1346.9	910.7	710.0	620.7	595.1	587.0	587.0
15°	3780.9	3329.6	2373.6	1493.1	923.5	654.3	568.5	544.1	534.8	532.5	532.5
17.5°	3630.1	3113.8	2009.3	1103.3	671.7	547.6	518.6	502.3	498.9	496.5	496.5
20°	3495.5	2896.8	1663.6	821.4	542.9	493.1	474.5	464.1	460.6	458.3	459.4
22.5°	3367.9	2704.3	1338.8	620.7	478.0	449.0	430.4	420.0	413.0	407.2	408.4
25°	3254.2	2518.6	1076.6	508.1	430.4	404.9	386.3	371.2	356.2	349.2	348.0
27.5°	3174.1	2356.2	838.8	435.0	387.5	359.6	336.4	317.9	298.2	287.7	285.4
30°	3108.0	2191.5	663.6	384.0	344.6	317.9	288.9	262.2	241.3	230.9	226.2
32.5°	3065.1	2034.9	523.2	342.2	308.6	276.1	243.6	216.9	193.7	183.3	181.0
35°	3058.1	1903.8	428.1	307.4	276.1	241.3	207.7	178.7	158.9	148.5	146.2
37.5°	3108.0	1802.8	358.5	279.6	249.4	211.1	174.0	147.3	129.9	121.8	120.7
40°	3241.4	1739.0	310.9	256.4	225.1	183.3	148.5	125.3	107.9	99.8	99.8
42.5°	3495.5	1741.4	279.6	234.3	200.7	156.6	126.5	104.4	89.3	82.4	80.0
45°	3892.2	1820.2	252.9	212.3	177.5	135.7	107.9	85.8	70.8	65.0	65.0
47.5°	4423.6	1976.9	229.7	190.3	156.6	116.0	91.7	69.6	56.8	51.0	51.0
50°	5118.5	2228.6	210.0	171.7	139.2	99.8	74.2	56.8	44.1	39.4	38.3
52.5°	5844.7	2539.5	186.8	155.5	119.5	84.7	60.3	44.1	33.6	30.2	29.0
55°	6646.4	2843.5	164.7	139.2	97.5	70.8	47.6	34.8	24.4	20.9	20.9
57.5°	7455.0	3141.6	138.1	116.0	76.6	52.2	37.1	25.5	16.2	12.8	12.8
60°	8139.5	3237.9	117.2	94.0	58.0	37.1	26.7	16.2	9.3	5.8	5.8
62.5°	8233.5	2913.1	98.6	71.9	41.8	25.5	13.9	9.3	3.5	2.3	2.3
65°	7723.0	2366.7	82.4	54.5	27.8	12.8	5.8	3.5	1.2	0.0	0.0
67°	6920.2	1918.9	67.3	40.6	19.7	8.1	3.5	1.2	0.0	0.0	0.0
67.5°	6714.8	1829.5	65.0	38.3	17.4	7.0	2.3	1.2	0.0	0.0	0.0
70°	5269.3	1370.1	46.4	23.2	10.4	4.6	0.0	0.0	0.0	0.0	0.0
72.5°	3275.1	775.0	33.6	13.9	7.0	2.3	0.0	0.0	0.0	0.0	0.0
75°	1237.9	271.5	23.2	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	385.2	103.3	13.9	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.9	39.4	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	80.0	16.2	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.9	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	2.3	1.2	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)