

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: P453939

Luminaire Tested: **GALN-SA5A-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453939
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-SA5A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 17253 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

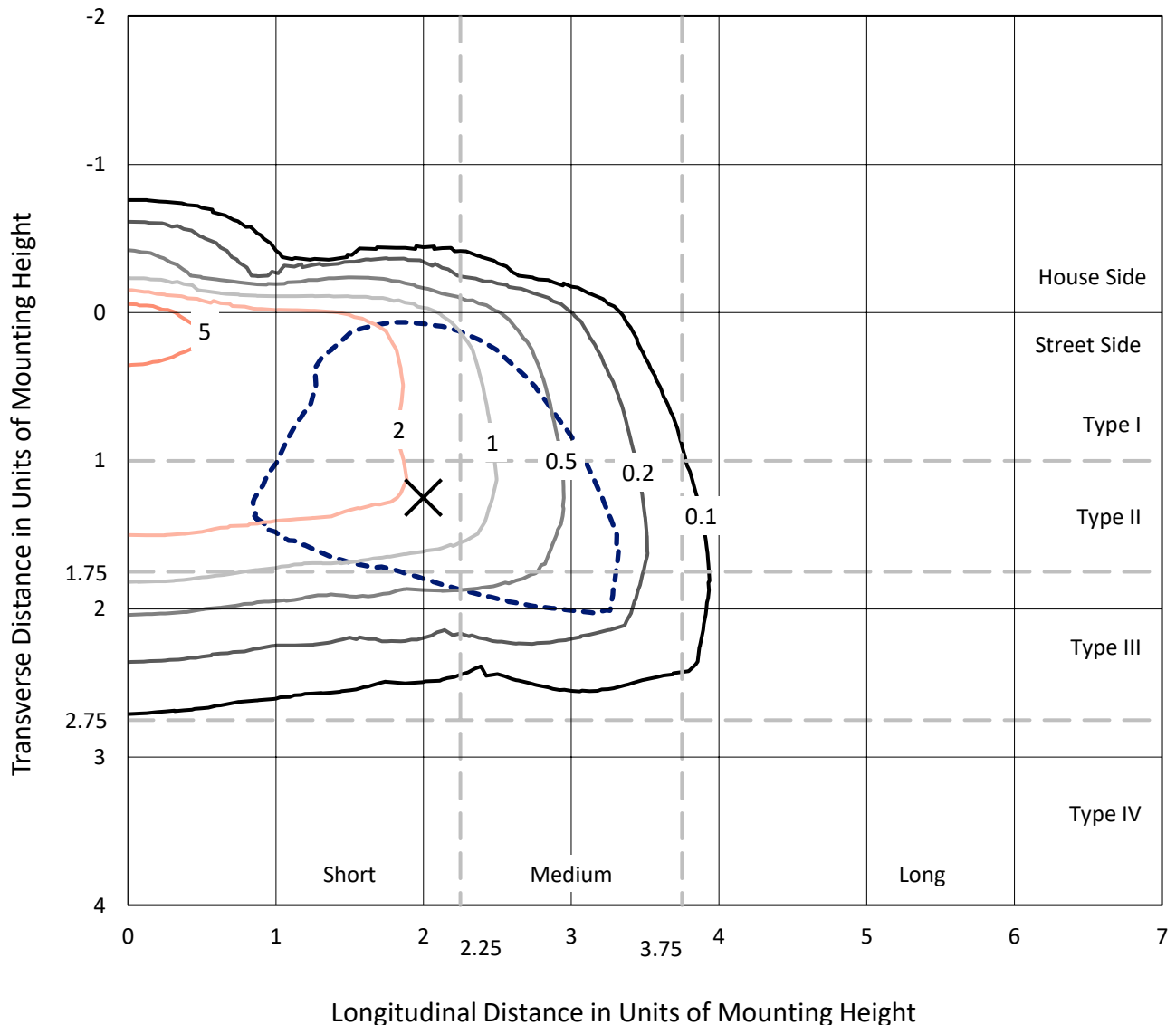
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

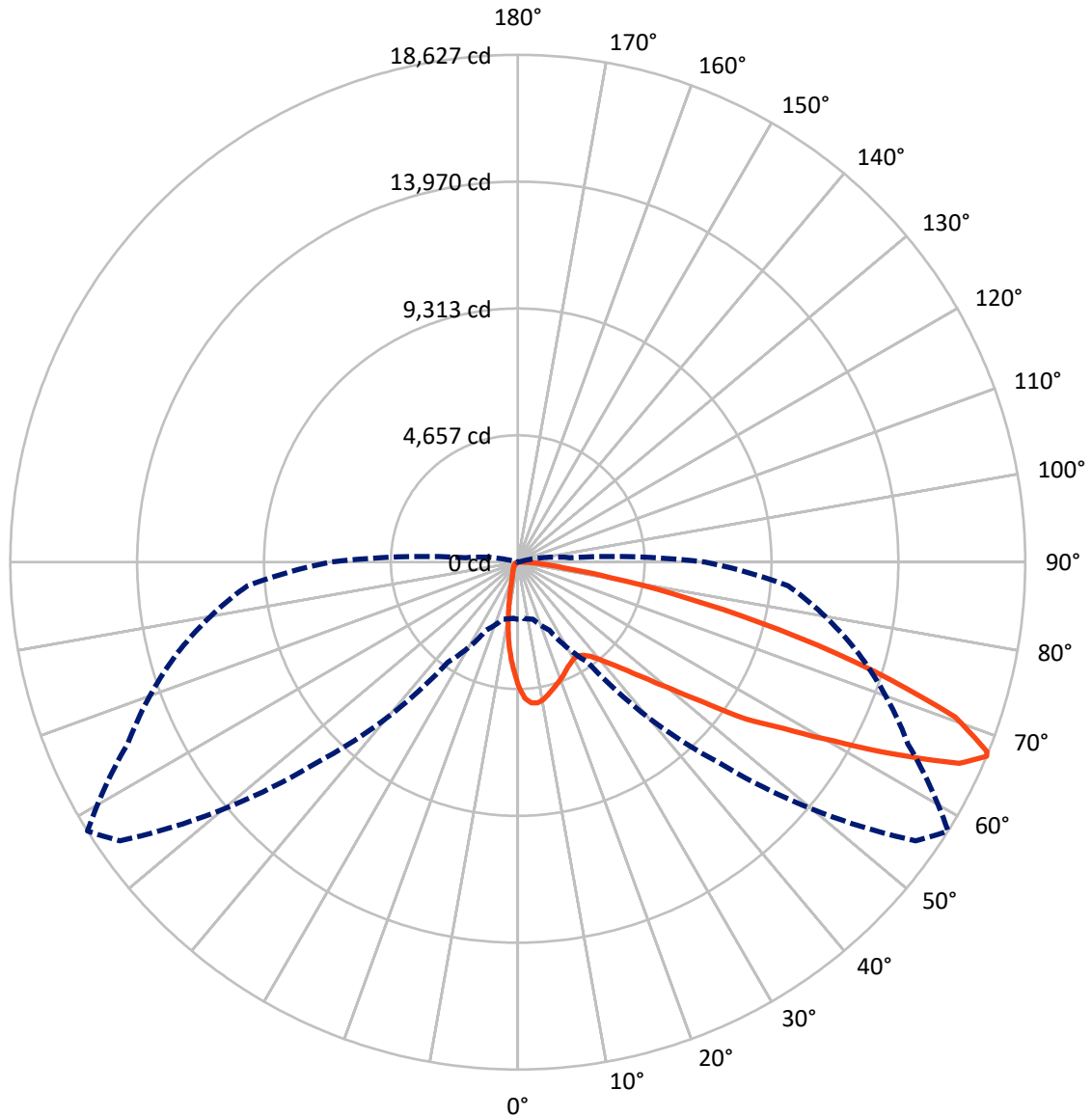
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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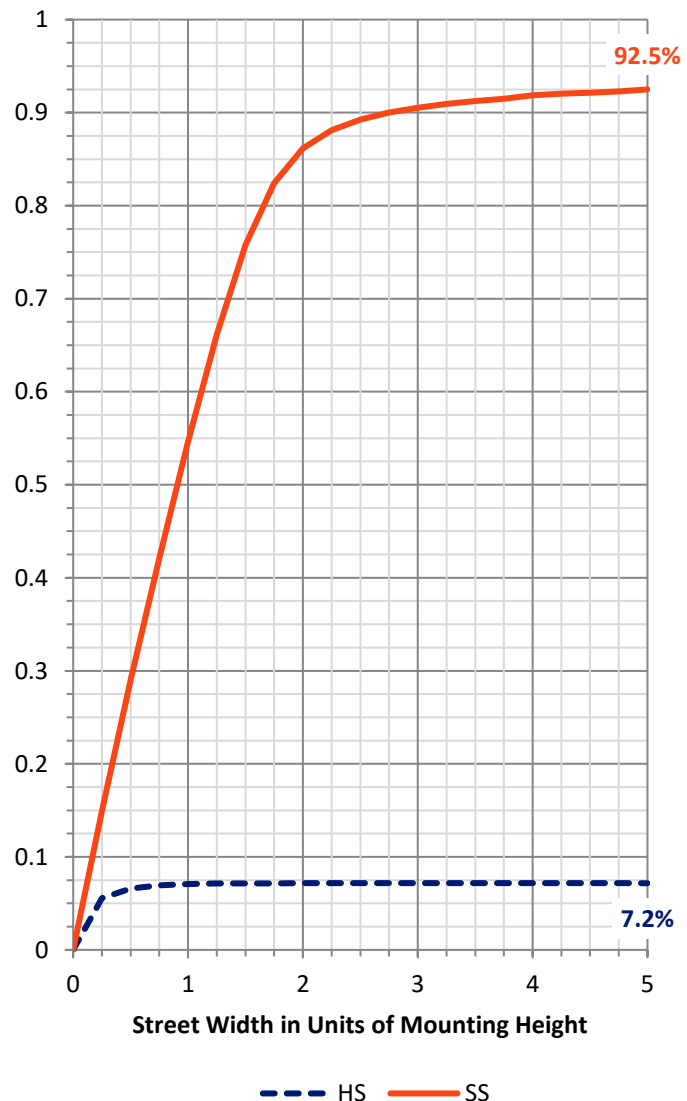
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1245.1	0.0	1245.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16007.9	0.0	16007.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	17253.0	0.0	17253.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.1	2.2
10°-20°	801.6	4.6
20°-30°	1086.2	6.3
30°-40°	1506.5	8.7
40°-50°	2402.6	13.9
50°-60°	4153.2	24.1
60°-70°	4744.2	27.5
70°-80°	1977.9	11.5
80°-90°	209.7	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°	17253.0	100.0
0°-180°	17253.0	100.0



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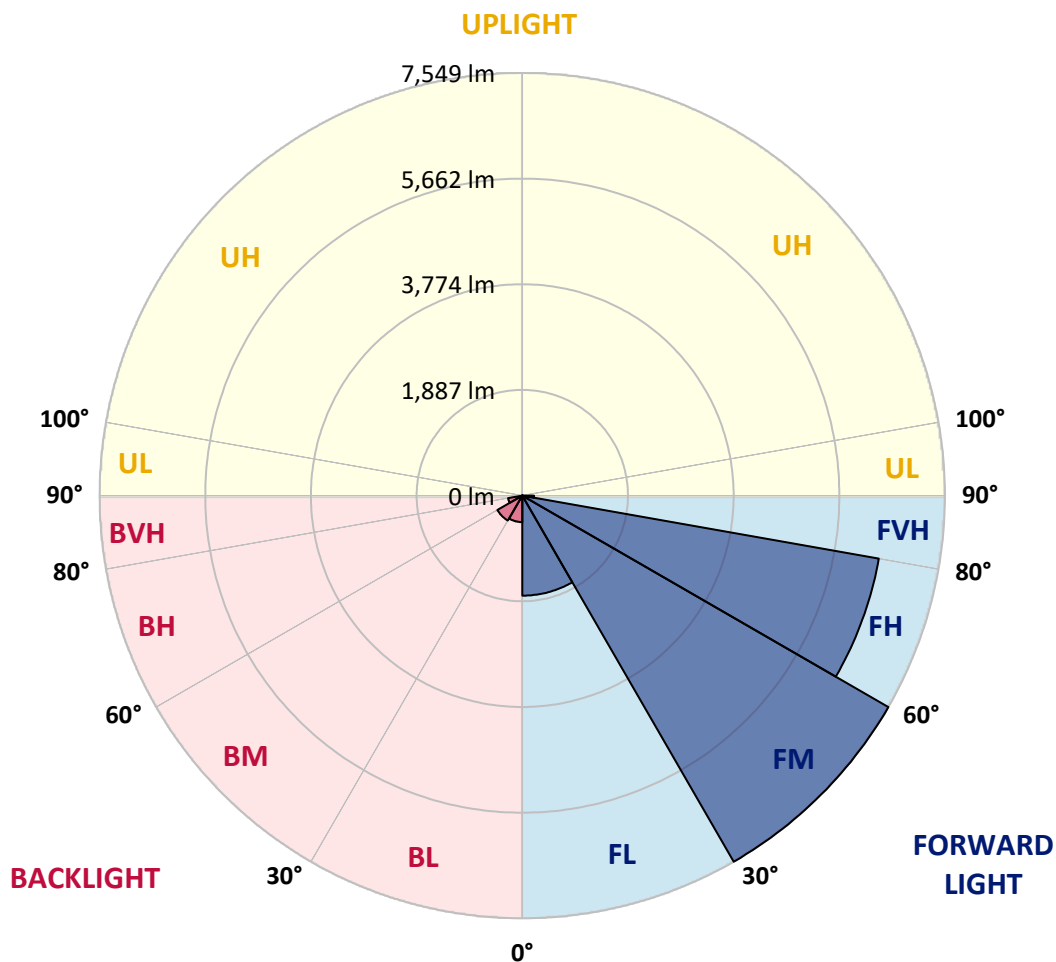
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.1	10.4			
FM (30°-60°)	7548.9	43.8			
FH (60°-80°)	6464.7	37.5			G3/7500
FVH (80°-90°)	208.2	1.2			G2/225
BL (0°-30°)	472.8	2.7	B1/500		
BM (30°-60°)	513.4	3.0	B1/1000		
BH (60°-80°)	257.4	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°	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6
2.5°	5308.0	5316.1	5286.1	5261.9	5199.6	5132.8	5044.0	4996.7	4916.0	4776.5	4622.0
5°	5432.5	5442.9	5438.3	5432.5	5408.3	5343.8	5230.8	5189.3	5070.5	4843.4	4564.4
7.5°	5155.8	5193.9	5198.5	5243.5	5286.1	5291.9	5249.2	5218.1	5108.6	4842.2	4461.8
10°	4789.2	4814.6	4851.5	4903.3	5006.0	5091.3	5132.8	5128.2	5064.8	4806.5	4341.9
12.5°	4419.1	4433.0	4489.4	4578.2	4703.9	4849.2	4959.8	4981.7	4982.9	4763.8	4241.6
15°	4100.9	4095.2	4139.0	4241.6	4418.0	4600.1	4798.4	4833.0	4888.4	4722.3	4148.2
17.5°	3828.8	3858.8	3865.7	3978.7	4141.3	4377.6	4630.1	4691.2	4801.9	4686.6	4070.9
20°	3660.5	3676.6	3691.6	3755.0	3901.5	4150.5	4472.2	4556.3	4721.2	4654.3	3984.5
22.5°	3610.9	3621.3	3608.6	3628.2	3732.0	3953.3	4300.4	4412.2	4643.9	4624.3	3914.1
25°	3649.0	3659.4	3629.4	3606.3	3642.1	3793.1	4134.4	4270.4	4581.7	4618.6	3861.1
27.5°	3741.2	3760.8	3719.3	3677.8	3657.0	3706.6	4004.1	4162.0	4539.0	4646.2	3836.9
30°	3885.3	3896.9	3865.7	3815.0	3767.7	3718.1	3936.1	4087.1	4527.5	4710.8	3834.6
32.5°	4042.1	4066.3	4049.0	4015.6	3954.5	3836.9	3955.6	4089.4	4555.2	4804.2	3863.4
35°	4235.8	4263.5	4279.6	4272.7	4194.3	4047.9	4080.2	4193.2	4629.0	4976.0	3941.8
37.5°	4426.0	4450.3	4541.3	4572.5	4503.3	4364.9	4322.3	4397.2	4791.5	5200.8	4083.6
40°	4643.9	4676.2	4804.2	4922.9	4889.5	4744.2	4665.8	4728.1	5040.5	5539.8	4352.3
42.5°	4852.6	4910.3	5105.1	5314.9	5346.1	5183.5	5131.6	5152.4	5409.5	6027.4	4726.9
45°	5148.9	5203.1	5454.4	5739.2	5885.6	5758.8	5705.8	5702.3	5915.6	6713.4	5334.5
47.5°	5576.6	5625.1	5921.4	6202.7	6463.2	6480.5	6380.2	6414.8	6552.0	7515.8	6079.3
50°	6101.2	6215.4	6410.2	6703.0	7051.2	7332.5	7363.7	7317.5	7435.1	8445.1	6974.0
52.5°	6863.3	6907.1	7085.8	7326.8	7734.9	8212.2	8582.3	8518.9	8482.0	9330.5	7877.9
55°	7431.7	7490.5	7768.3	8099.2	8697.6	9327.1	10129.5	10151.4	9685.6	10181.4	8762.2
57.5°	7259.9	7349.8	7770.6	8435.9	9751.4	10902.0	11499.2	11514.2	10799.4	11008.0	9760.6
60°	6377.9	6420.6	7023.6	7911.3	9841.3	12608.3	13441.8	13320.8	11932.7	11932.7	10642.6
62.5°	4522.9	4589.8	5078.6	6384.8	8887.8	13200.9	15768.4	15518.2	13493.7	12817.0	11168.3
65°	2890.4	2825.8	3149.8	4030.6	6621.2	12325.8	17794.1	17809.1	14962.5	13170.9	10881.2
67°	2093.7	2068.3	2161.7	2755.5	4489.4	10361.2	17836.7	18626.5	15806.5	12947.2	9963.5
67.5°	1915.0	1934.6	2002.6	2485.7	4079.0	9428.5	17643.1	18578.1	15996.7	12812.3	9631.4
70°	1451.5	1418.1	1491.9	1758.2	2445.3	5947.9	15177.0	17038.9	15760.3	11473.8	7695.7
72.5°	1067.6	1064.1	1166.7	1437.7	1882.7	3168.2	11393.1	13662.0	12875.7	8736.8	4845.7
75°	720.6	752.9	916.6	1201.3	1706.3	2054.5	7767.2	9911.6	8938.5	4961.0	1980.7
77.5°	410.4	412.7	590.3	965.0	1532.2	1653.3	4602.4	6314.5	4731.6	1649.8	588.0
80°	177.5	194.8	292.8	701.0	1270.5	1464.2	2639.0	3470.3	1913.8	349.3	190.2
82.5°	65.7	77.2	129.1	431.2	926.9	1205.9	1594.5	1656.7	649.1	123.4	118.8
85°	0.0	2.3	47.3	201.8	483.1	538.4	1065.3	982.3	287.1	58.8	77.2
87.5°	0.0	0.0	0.0	20.8	63.4	200.6	330.9	368.9	69.2	20.8	18.4
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°	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6	4573.6
2.5°	4539.0	4464.1	4276.2	4088.2	3948.7	3832.3	3657.0	3561.4	3510.6	3435.7	3440.3
5°	4424.9	4272.7	3941.8	3599.4	3322.7	3052.9	2730.1	2599.8	2490.3	2428.0	2386.5
7.5°	4255.4	4030.6	3540.6	3084.0	2658.6	2187.1	1833.1	1596.8	1437.7	1378.9	1322.4
10°	4069.8	3771.2	3133.6	2500.7	1910.4	1423.8	1124.1	907.3	830.1	758.6	765.5
12.5°	3898.0	3534.8	2760.1	1973.8	1338.5	905.0	705.6	616.8	591.4	583.4	583.4
15°	3757.3	3308.9	2358.9	1483.8	917.7	650.2	564.9	540.7	531.5	529.2	529.2
17.5°	3607.5	3094.4	1996.8	1096.4	667.5	544.2	515.4	499.2	495.8	493.4	493.4
20°	3473.7	2878.8	1653.3	816.3	539.6	490.0	471.5	461.2	457.7	455.4	456.6
22.5°	3346.9	2687.4	1330.5	616.8	475.0	446.2	427.7	417.4	410.4	404.7	405.8
25°	3233.9	2503.0	1069.9	505.0	427.7	402.4	383.9	368.9	353.9	347.0	345.9
27.5°	3154.4	2341.6	833.6	432.3	385.1	357.4	334.3	315.9	296.3	285.9	283.6
30°	3088.7	2177.9	659.5	381.6	342.4	315.9	287.1	260.6	239.8	229.4	224.8
32.5°	3046.0	2022.2	520.0	340.1	306.7	274.4	242.1	215.6	192.5	182.2	179.9
35°	3039.1	1891.9	425.4	305.5	274.4	239.8	206.4	177.5	157.9	147.6	145.3
37.5°	3088.7	1791.6	356.3	277.9	247.9	209.8	172.9	146.4	129.1	121.1	119.9
40°	3221.2	1728.2	309.0	254.8	223.7	182.2	147.6	124.5	107.2	99.2	99.2
42.5°	3473.7	1730.5	277.9	232.9	199.5	155.6	125.7	103.8	88.8	81.9	79.6
45°	3868.0	1808.9	251.3	211.0	176.4	134.9	107.2	85.3	70.3	64.6	64.6
47.5°	4396.1	1964.6	228.3	189.1	155.6	115.3	91.1	69.2	56.5	50.7	50.7
50°	5086.7	2214.7	208.7	170.6	138.3	99.2	73.8	56.5	43.8	39.2	38.0
52.5°	5808.4	2523.7	185.6	154.5	118.8	84.2	60.0	43.8	33.4	30.0	28.8
55°	6605.0	2825.8	163.7	138.3	96.8	70.3	47.3	34.6	24.2	20.8	20.8
57.5°	7408.6	3122.1	137.2	115.3	76.1	51.9	36.9	25.4	16.1	12.7	12.7
60°	8088.8	3217.8	116.4	93.4	57.6	36.9	26.5	16.1	9.2	5.8	5.8
62.5°	8182.2	2895.0	98.0	71.5	41.5	25.4	13.8	9.2	3.5	2.3	2.3
65°	7675.0	2351.9	81.9	54.2	27.7	12.7	5.8	3.5	1.2	0.0	0.0
67°	6877.1	1906.9	66.9	40.4	19.6	8.1	3.5	1.2	0.0	0.0	0.0
67.5°	6673.1	1818.1	64.6	38.0	17.3	6.9	2.3	1.2	0.0	0.0	0.0
70°	5236.5	1361.6	46.1	23.1	10.4	4.6	0.0	0.0	0.0	0.0	0.0
72.5°	3254.7	770.1	33.4	13.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0
75°	1230.2	269.8	23.1	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	382.8	102.6	13.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.1	39.2	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.6	16.1	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.6	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	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)