

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: P458095

Luminaire Tested: **GALN-SA9C-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39846 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

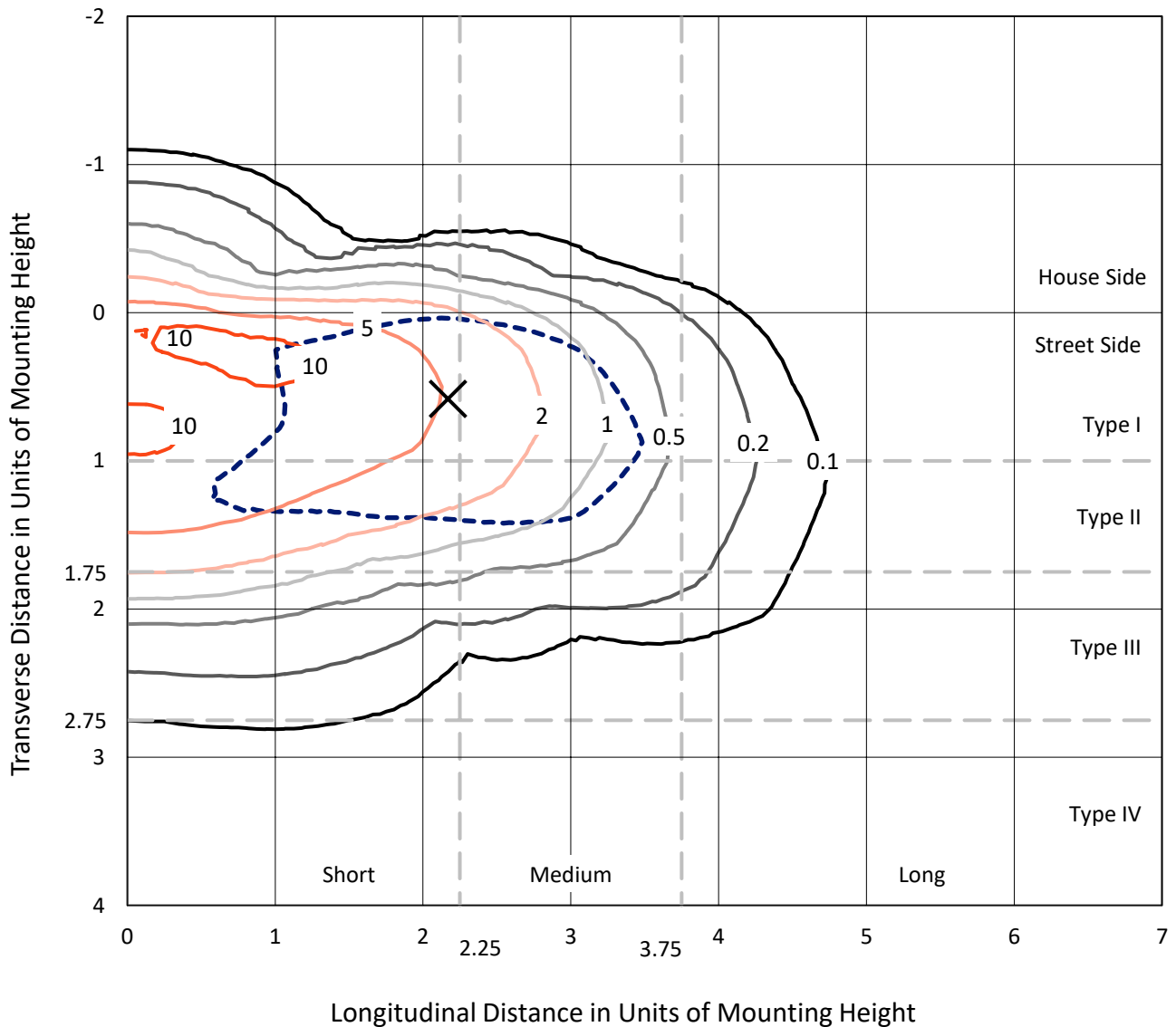
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

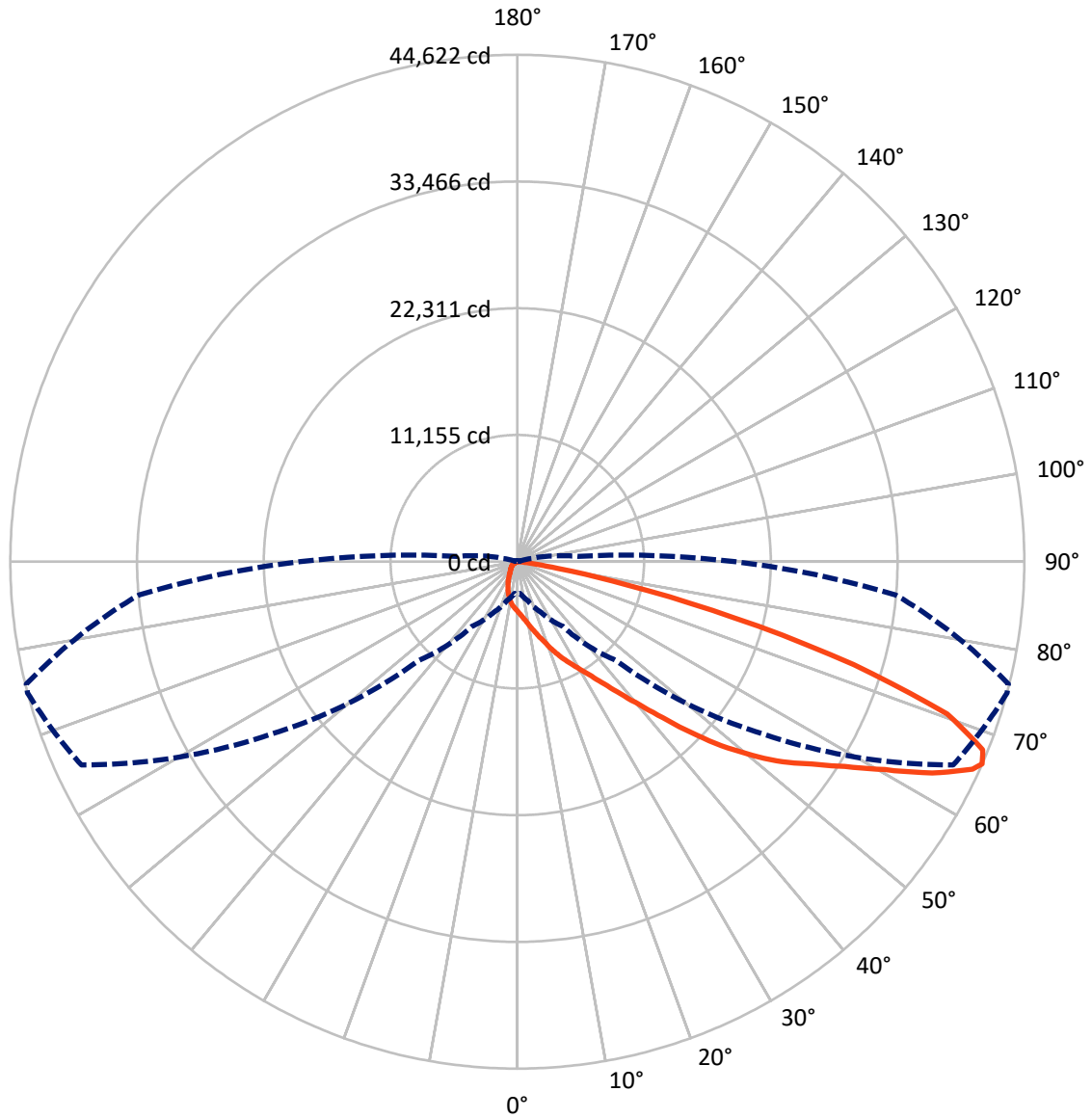
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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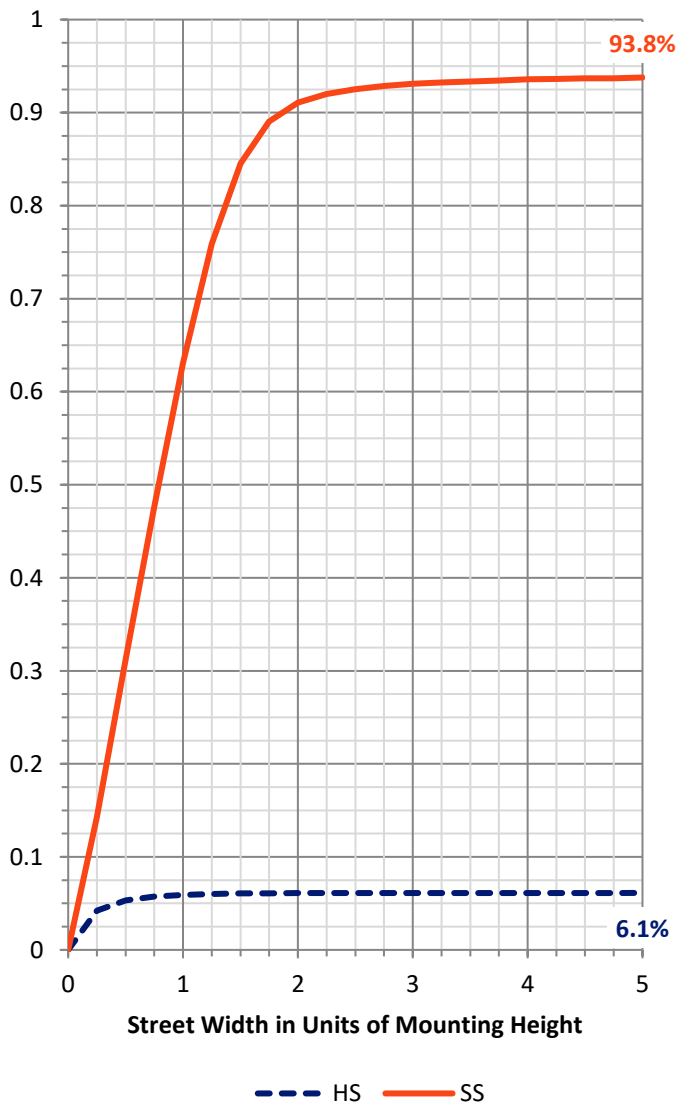
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2459.9	0.0	2459.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	37386.1	0.0	37386.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	39846.0	0.0	39846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	1.1
10°-20°	1236.9	3.1
20°-30°	2135.9	5.4
30°-40°	3852.8	9.7
40°-50°	6960.1	17.5
50°-60°	10850.9	27.2
60°-70°	10307.9	25.9
70°-80°	3863.1	9.7
80°-90°	217.9	0.5
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°	39846.0	100.0
0°-180°	39846.0	100.0



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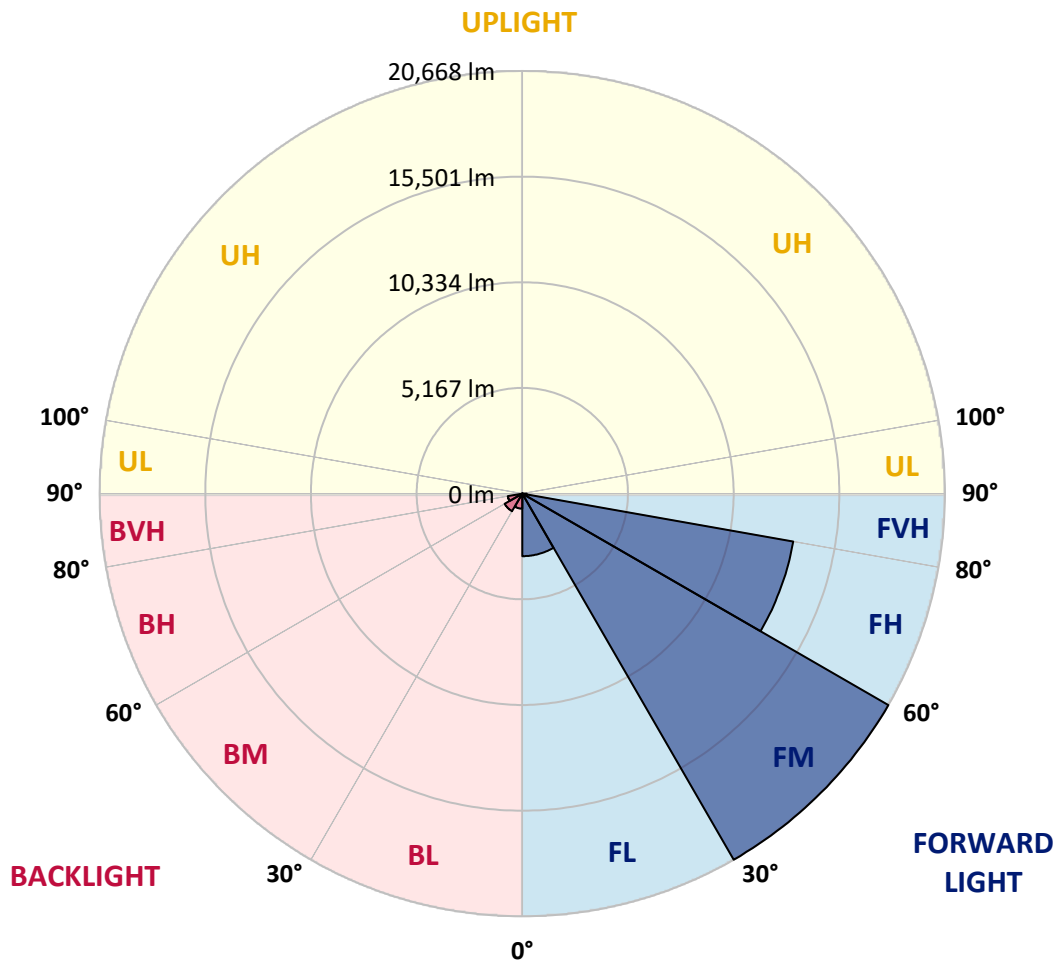
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3058.5	7.7			
FM (30°-60°)	20668.1	51.9			
FH (60°-80°)	13452.7	33.8			G5
FVH (80°-90°)	206.7	0.5			G2/225
BL (0°-30°)	734.6	1.8	B2/1000		
BM (30°-60°)	995.7	2.5	B1/1000		
BH (60°-80°)	718.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6
2.5°	5206.1	5141.3	5161.9	5132.4	5064.7	4964.5	4876.1	4749.4	4622.7	4602.1	4460.7
5°	5892.6	5874.9	5851.3	5765.9	5718.7	5565.5	5382.9	5164.8	4902.6	4855.5	4599.1
7.5°	6361.0	6352.2	6364.0	6319.8	6278.5	6140.1	5945.6	5648.0	5241.4	5214.9	4787.7
10°	6514.2	6537.8	6582.0	6652.7	6717.5	6673.3	6526.0	6154.8	5680.4	5603.8	5002.8
12.5°	6425.8	6452.4	6558.4	6747.0	6956.2	7077.0	7018.0	6747.0	6145.9	6084.1	5244.4
15°	6199.0	6231.4	6381.7	6673.3	7047.5	7389.3	7536.6	7342.1	6688.1	6587.9	5536.1
17.5°	5863.1	5910.2	6125.3	6511.3	7023.9	7613.2	8028.6	7963.8	7265.5	7171.3	5854.3
20°	5609.7	5645.1	5827.7	6269.7	6923.8	7736.9	8497.1	8679.8	7978.5	7816.5	6228.4
22.5°	5777.7	5789.4	5851.3	6116.5	6744.0	7769.4	8909.6	9425.2	8735.7	8591.4	6617.4
25°	6599.7	6481.8	6420.0	6361.0	6705.7	7739.9	9283.7	10203.0	9490.0	9336.8	7003.3
27.5°	7896.0	7843.0	7530.7	7112.3	7032.8	7778.2	9531.2	10939.6	10200.0	10035.0	7380.4
30°	9307.3	9216.0	9024.5	8411.6	7795.9	8049.2	9711.0	11655.5	11039.7	10821.7	7725.2
32.5°	10603.7	10662.6	10376.8	9746.3	9033.3	8626.7	9943.7	12436.3	12003.2	11732.1	8125.9
35°	12115.1	12233.0	11794.0	11190.0	10356.2	9669.7	10397.4	13317.2	13225.9	12884.1	8744.6
37.5°	13650.1	13720.8	13452.7	12604.2	11852.9	10995.5	11251.9	14404.4	14731.4	14439.7	9484.1
40°	14940.6	15037.8	14840.4	14086.2	13284.8	12530.5	12492.2	15588.8	16522.8	16222.2	10586.0
42.5°	15927.6	16001.3	16007.2	15473.9	14752.0	14410.3	14074.4	17100.2	18767.8	18420.2	11864.7
45°	17173.9	17280.0	17218.1	16855.7	16316.5	16254.6	16080.8	18926.9	21454.8	21015.8	13523.4
47.5°	19100.8	19171.5	19018.3	18591.1	18043.0	18140.3	18037.2	20974.6	24194.9	23817.8	15241.1
50°	20438.4	20556.2	20774.2	20945.1	20547.4	20187.9	19881.5	22886.7	26796.5	26457.6	16997.1
52.5°	20423.6	20618.1	21307.5	22167.8	23037.0	22928.0	22047.0	24999.2	29280.2	28861.8	18647.0
55°	19047.7	19424.9	20438.4	21964.5	24371.7	25570.8	25170.1	27444.6	31425.1	31142.2	20559.2
57.5°	16207.5	16437.3	17845.6	19978.8	23626.3	26814.1	28788.1	30759.2	33997.2	33864.6	23529.0
60°	10901.3	11004.4	12816.3	15453.3	20114.3	25573.7	31439.8	34769.1	37164.4	37099.6	26996.8
62.5°	6246.1	6290.3	7604.4	9828.8	14313.0	21672.9	31663.7	39715.9	40962.2	40997.5	31009.6
65°	3361.7	3385.3	4445.9	5768.8	8709.2	15447.4	28472.9	42426.5	44032.2	44100.0	33496.3
66°	2902.1	2790.1	3538.5	4917.3	6929.7	12294.8	26454.7	42329.3	44621.5	44547.8	33407.9
67.5°	2206.8	2306.9	2825.5	3780.1	5135.4	8741.6	21840.8	40446.6	44173.6	43943.8	32049.7
70°	1579.2	1620.5	2012.3	2695.8	3497.2	4796.6	13956.5	33593.5	40149.0	39839.7	27921.9
72.5°	1019.4	1063.6	1426.0	1950.4	2527.9	2619.2	7813.5	24271.5	30953.7	30909.5	21027.6
75°	727.7	769.0	942.8	1396.5	1900.4	1620.5	3762.4	16357.8	19678.2	19545.6	13007.8
77.5°	527.4	548.0	630.5	913.3	1358.2	1160.8	1744.2	8735.7	9796.4	10259.0	5748.2
80°	303.5	321.1	439.0	556.8	919.2	792.6	833.8	3506.1	3615.1	3441.3	1797.2
82.5°	150.3	170.9	262.2	380.1	574.5	533.3	383.0	1054.8	1113.7	1084.2	453.7
85°	35.4	44.2	147.3	250.4	279.9	238.6	185.6	309.4	383.0	374.2	173.8
87.5°	2.9	5.9	53.0	44.2	47.1	79.5	64.8	79.5	123.7	114.9	61.9
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°	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6
2.5°	4395.9	4339.9	4177.8	4018.7	3886.1	3747.7	3621.0	3547.3	3517.9	3485.5	3500.2
5°	4457.7	4322.2	3995.2	3712.3	3435.4	3199.7	3011.1	2890.3	2831.4	2822.5	2807.8
7.5°	4540.2	4307.5	3800.7	3358.8	2996.4	2734.2	2519.1	2345.2	2292.2	2245.1	2206.8
10°	4640.4	4281.0	3559.1	2987.5	2601.6	2271.6	1988.7	1782.5	1676.4	1647.0	1667.6
12.5°	4746.5	4230.9	3305.7	2645.8	2200.9	1779.6	1517.3	1414.2	1384.8	1373.0	1375.9
15°	4852.5	4169.0	3040.6	2315.8	1753.0	1420.1	1299.3	1272.8	1261.0	1255.1	1249.2
17.5°	4949.8	4068.8	2743.0	1994.6	1420.1	1213.9	1169.7	1146.1	1122.5	1113.7	1099.0
20°	5064.7	3953.9	2474.9	1635.2	1202.1	1099.0	1045.9	1001.7	966.4	942.8	939.9
22.5°	5173.7	3806.6	2195.0	1355.3	1096.0	987.0	901.6	854.4	813.2	783.7	792.6
25°	5232.6	3626.9	1944.5	1181.5	998.8	875.0	780.8	721.8	677.6	662.9	660.0
27.5°	5232.6	3405.9	1700.0	1081.3	910.4	774.9	677.6	621.7	592.2	571.6	574.5
30°	5191.4	3161.4	1473.1	1004.7	833.8	686.5	595.1	545.1	521.5	506.8	503.8
32.5°	5158.9	2928.6	1278.7	931.0	754.2	609.9	530.3	492.0	468.5	453.7	453.7
35°	5209.0	2728.3	1128.4	857.4	680.6	551.0	480.2	444.9	421.3	409.5	406.6
37.5°	5341.6	2545.6	1013.5	777.8	612.8	500.9	444.9	403.6	380.1	365.3	359.4
40°	5668.7	2442.5	928.1	704.2	548.0	459.6	403.6	365.3	335.9	321.1	318.2
42.5°	6193.1	2445.4	845.6	636.4	497.9	424.3	368.3	324.1	291.7	277.0	274.0
45°	6982.7	2557.4	780.8	571.6	453.7	386.0	330.0	282.8	253.4	238.6	238.6
47.5°	7928.5	2775.4	724.8	515.6	412.5	350.6	291.7	244.5	215.1	203.3	203.3
50°	8953.8	3058.2	668.8	456.7	377.1	312.3	250.4	212.1	188.6	179.7	179.7
52.5°	9999.7	3400.0	612.8	409.5	338.8	271.1	215.1	188.6	167.9	162.0	159.1
55°	11372.7	3836.1	553.9	359.4	297.6	232.8	191.5	165.0	141.4	132.6	129.6
57.5°	13485.1	4493.1	489.1	315.3	244.5	194.5	165.0	138.5	112.0	97.2	94.3
60°	16033.7	5294.5	421.3	277.0	197.4	159.1	132.6	106.1	82.5	64.8	61.9
62.5°	18420.2	5804.2	356.5	232.8	156.2	120.8	94.3	79.5	58.9	41.2	38.3
65°	19474.9	5633.3	294.6	188.6	123.7	85.4	61.9	56.0	35.4	17.7	14.7
66°	19124.3	5379.9	271.1	170.9	112.0	73.7	53.0	47.1	26.5	8.8	8.8
67.5°	18090.2	4781.8	235.7	147.3	97.2	58.9	41.2	35.4	14.7	2.9	0.0
70°	15500.4	3868.5	185.6	109.0	70.7	41.2	23.6	17.7	8.8	0.0	0.0
72.5°	11905.9	2881.5	147.3	82.5	50.1	23.6	11.8	5.9	8.8	0.0	0.0
75°	7295.0	1647.0	114.9	61.9	32.4	14.7	8.8	0.0	8.8	2.9	0.0
77.5°	3238.0	739.5	76.6	41.2	23.6	11.8	5.9	0.0	5.9	2.9	0.0
80°	819.1	241.6	44.2	29.5	17.7	8.8	2.9	0.0	5.9	5.9	2.9
82.5°	223.9	88.4	32.4	23.6	14.7	8.8	2.9	0.0	5.9	5.9	5.9
85°	88.4	41.2	29.5	23.6	17.7	8.8	2.9	0.0	5.9	5.9	5.9
87.5°	41.2	29.5	29.5	26.5	20.6	8.8	2.9	0.0	5.9	2.9	5.9
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)