

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: P457749

Luminaire Tested: **GALN-SA9A-760-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33192 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

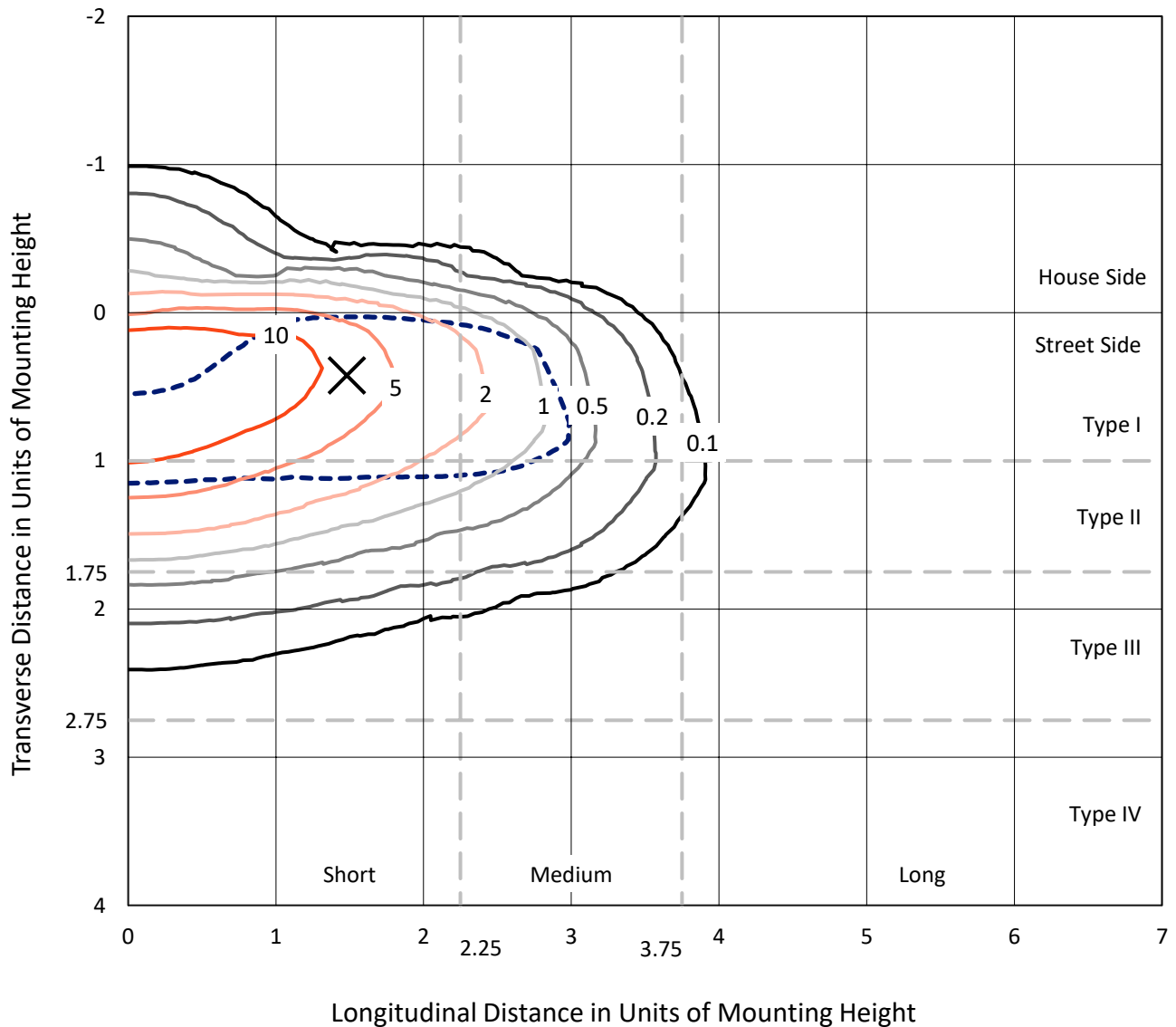
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

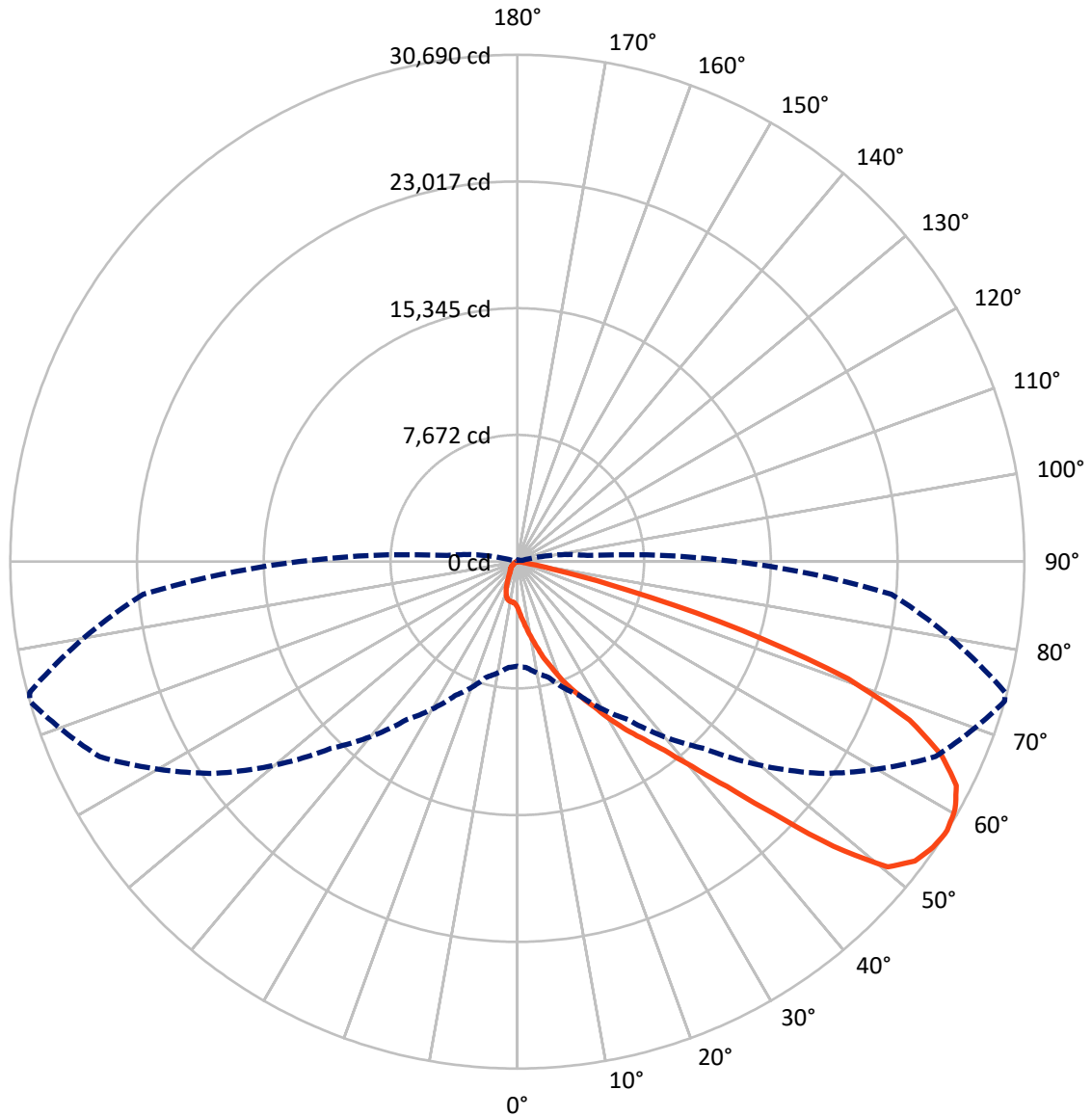
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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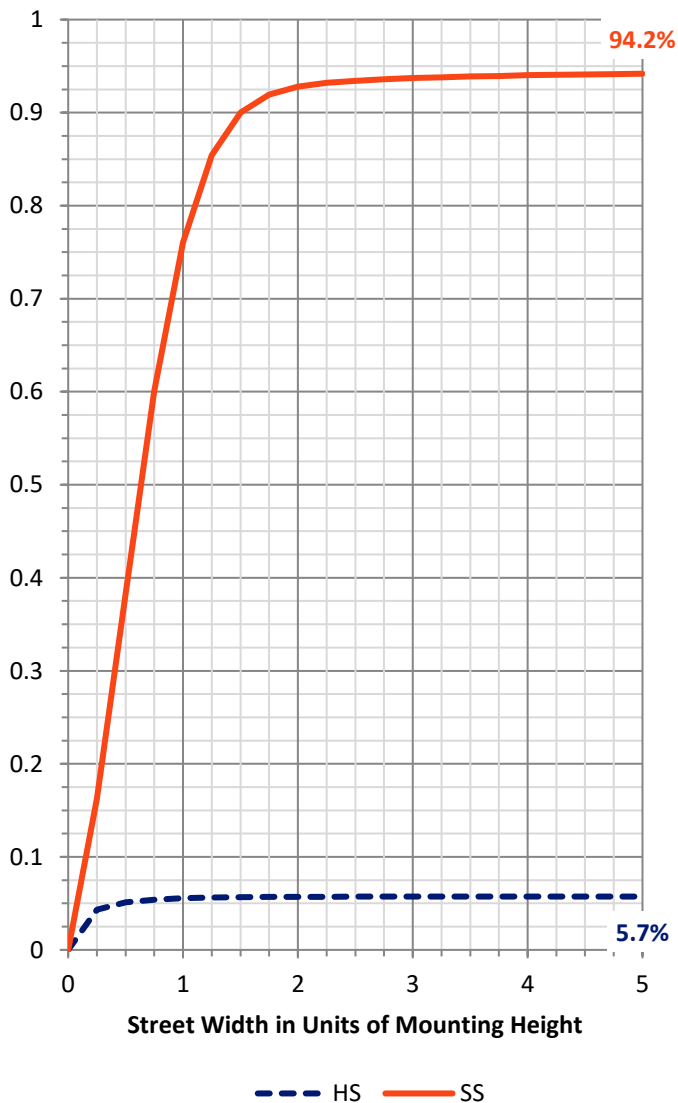
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.4	0.0	1914.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	31277.6	0.0	31277.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	33192.0	0.0	33192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.5	1.0
10°-20°	1322.5	4.0
20°-30°	2829.8	8.5
30°-40°	5201.2	15.7
40°-50°	7973.6	24.0
50°-60°	8435.0	25.4
60°-70°	5508.3	16.6
70°-80°	1505.1	4.5
80°-90°	81.0	0.2
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°	33192.0	100.0
0°-180°	33192.0	100.0

Coefficient of Utilization



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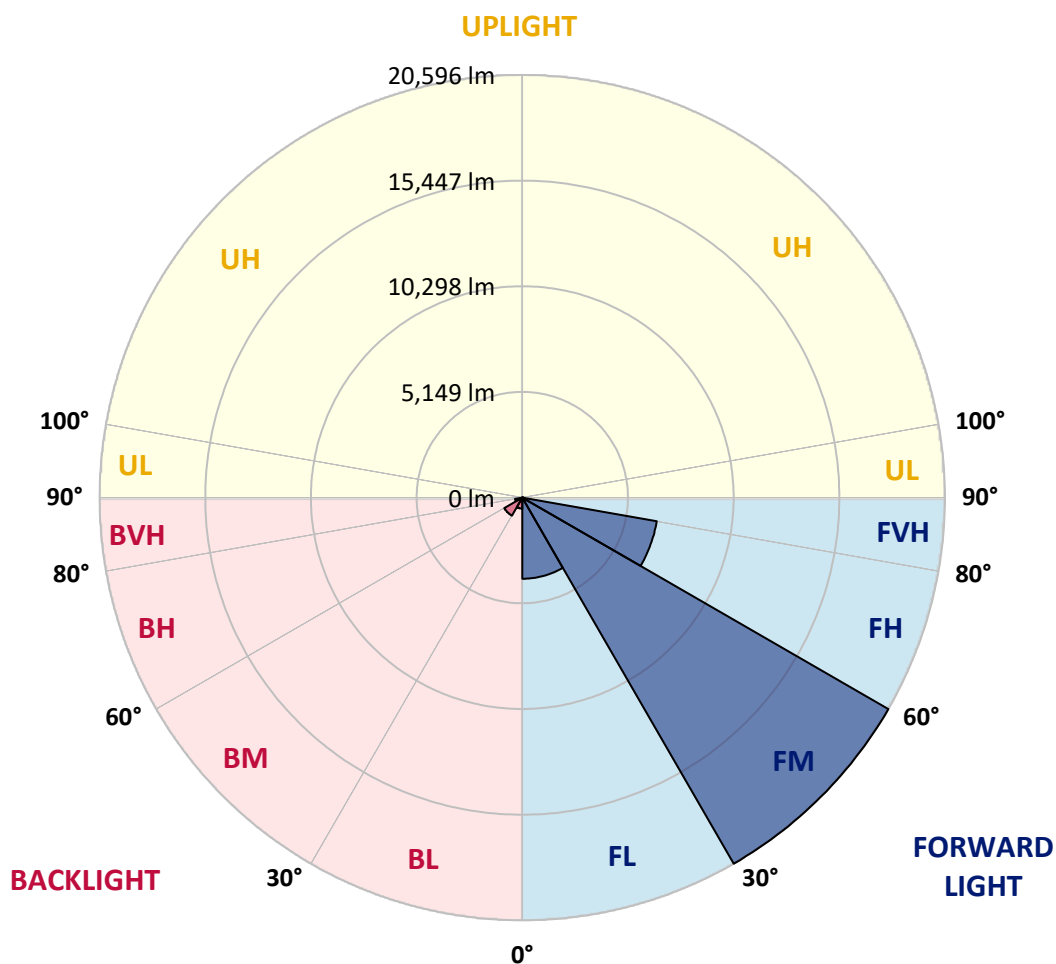
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3953.1	11.9			
FM	(30°-60°)	20596.2	62.1			
FH	(60°-80°)	6653.9	20.0			G3/7500
FVH	(80°-90°)	74.3	0.2			G1/100
BL	(0°-30°)	534.8	1.6	B2/1000		
BM	(30°-60°)	1013.5	3.1	B2/2500		
BH	(60°-80°)	359.4	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8
2.5°	4067.7	4031.0	3957.7	3932.5	3824.8	3657.5	3510.8	3313.7	3157.9	3141.9	2954.0
5°	5447.3	5364.8	5330.4	5165.4	4906.4	4663.5	4246.5	3930.2	3565.8	3538.3	3160.2
7.5°	6776.4	6661.9	6627.5	6471.7	6169.2	5786.4	5245.6	4670.4	4092.9	4040.2	3437.5
10°	7738.9	7755.0	7693.1	7590.0	7344.8	6955.2	6288.3	5502.3	4679.6	4613.1	3749.2
12.5°	8428.7	8426.4	8437.9	8435.6	8305.0	8009.4	7308.1	6402.9	5325.8	5195.2	4106.7
15°	8877.9	8884.8	8919.2	9038.3	9052.1	8868.7	8284.4	7264.6	6075.2	5912.5	4494.0
17.5°	9331.7	9379.8	9434.8	9547.1	9647.9	9574.6	9162.1	8162.9	6753.5	6632.1	4908.7
20°	10081.0	10147.5	10115.4	10184.1	10236.9	10243.7	9925.2	8992.5	7576.2	7372.3	5383.1
22.5°	11279.6	11277.3	11194.8	11071.0	10967.9	10963.3	10674.6	9845.0	8323.3	8126.2	5859.8
25°	12794.4	12801.2	12640.8	12287.9	12031.2	11717.3	11385.0	10592.1	9123.1	8880.2	6361.7
27.5°	14531.4	14487.9	14245.0	13759.1	13250.4	12714.1	12235.2	11460.6	9971.0	9769.4	6936.9
30°	16092.1	16076.0	15791.8	15198.3	14529.1	13990.6	13296.2	12549.1	11068.7	10821.2	7580.8
32.5°	17545.0	17567.9	17173.7	16559.6	15913.3	15292.3	14558.9	13589.6	12145.8	11795.2	8282.1
35°	18679.3	18702.3	18294.3	17783.3	17118.7	16603.1	15904.1	14698.7	13209.1	12913.5	9088.7
37.5°	19284.3	19314.1	19078.1	18693.1	18278.3	18019.3	17368.5	16126.4	14501.6	14322.9	10042.1
40°	19398.9	19433.3	19330.2	19227.0	19204.1	19389.8	19199.5	17808.5	16293.7	16014.1	11462.9
42.5°	19055.2	19101.0	19146.8	19376.0	19843.5	20524.1	21186.4	20091.0	18601.4	18225.6	13200.0
45°	18152.3	18147.7	18328.7	18922.3	19969.5	21422.5	23262.7	22948.7	21745.6	21298.7	15654.3
47.5°	16607.7	16584.8	16976.6	17822.3	19453.9	21587.5	24956.2	26418.3	25758.3	25345.8	18292.1
50°	14254.1	14366.4	14982.9	16163.1	18172.9	21087.9	25478.7	28693.9	29051.4	28613.7	20423.3
52.5°	11497.3	11492.7	12459.8	14061.6	16275.4	19987.9	25114.3	29106.4	30121.6	29787.0	21472.9
55°	8508.9	8568.5	9574.6	11190.2	13811.9	17980.4	23925.0	28682.4	30529.5	30293.5	22165.0
57°	6329.6	6435.0	7241.7	8951.2	11666.9	15993.5	22341.4	27923.9	30689.9	30561.6	22740.2
57.5°	5907.9	5912.5	6698.5	8252.3	11038.9	15230.4	21887.7	27607.7	30685.4	30614.3	22834.1
60°	3636.9	3751.5	4294.6	5577.9	8080.4	11886.9	18846.6	25790.4	30447.0	30550.2	23235.2
62.5°	2177.1	2225.2	2578.1	3361.9	5208.9	8676.2	15422.9	23464.3	29826.0	30139.9	23207.7
65°	1400.2	1411.7	1572.1	2035.0	3256.5	5864.4	11884.6	20391.2	28219.5	28797.0	22300.2
67.5°	1081.7	1100.0	1164.2	1336.0	1888.3	3652.9	8405.8	17111.8	25620.8	26365.6	20100.2
70°	960.2	969.4	992.3	1047.3	1249.0	2062.5	5229.6	13367.3	21246.0	21456.8	15730.0
72.5°	783.7	809.0	880.0	898.3	990.0	1287.9	2910.4	8971.9	14274.8	14327.5	8800.0
75°	607.3	611.9	717.3	770.0	834.2	886.9	1299.4	4523.7	6856.7	6490.0	3391.7
77.5°	453.7	474.4	522.5	589.0	680.6	634.8	582.1	1705.0	2129.0	2090.0	985.4
80°	291.0	302.5	364.4	442.3	529.4	414.8	327.7	499.6	467.5	481.2	236.0
82.5°	146.7	149.0	233.7	359.8	336.9	208.5	206.2	204.0	174.2	171.9	110.0
85°	16.0	34.4	151.2	206.2	151.2	68.7	96.2	94.0	91.7	94.0	64.2
87.5°	2.3	2.3	25.2	29.8	20.6	22.9	27.5	29.8	36.7	34.4	27.5
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°	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8	2779.8
2.5°	2862.3	2770.6	2601.0	2438.3	2316.9	2239.0	2138.1	2101.5	2048.7	2041.9	2016.7
5°	2986.0	2811.9	2516.2	2282.5	2094.6	1952.5	1828.7	1725.6	1643.1	1624.8	1634.0
7.5°	3162.5	2903.5	2491.0	2172.5	1911.2	1668.3	1471.2	1349.8	1262.7	1230.6	1235.2
10°	3361.9	3025.0	2486.5	2055.6	1656.9	1359.0	1143.5	1035.8	985.4	967.1	946.5
12.5°	3597.9	3164.8	2475.0	1874.6	1377.3	1084.0	930.4	866.2	818.1	804.4	804.4
15°	3863.7	3313.7	2420.0	1650.0	1118.3	896.0	792.9	742.5	726.5	712.7	712.7
17.5°	4141.0	3460.4	2305.4	1372.7	928.1	767.7	703.5	673.7	650.8	634.8	634.8
20°	4457.3	3604.8	2122.1	1127.5	783.7	685.2	634.8	600.4	582.1	568.3	563.7
22.5°	4757.5	3721.7	1888.3	925.8	682.9	616.5	570.6	534.0	515.6	508.7	508.7
25°	5069.2	3792.7	1606.5	765.4	623.3	559.2	508.7	479.0	462.9	458.3	456.0
27.5°	5371.7	3834.0	1359.0	669.2	568.3	506.5	458.3	435.4	419.4	414.8	417.1
30°	5738.3	3840.8	1118.3	600.4	520.2	456.0	412.5	391.9	382.7	378.1	375.8
32.5°	6109.6	3831.7	939.6	559.2	474.4	412.5	375.8	359.8	352.9	346.0	346.0
35°	6526.7	3783.5	799.8	517.9	430.8	375.8	343.7	330.0	320.8	314.0	311.7
37.5°	7044.6	3758.3	719.6	472.1	391.9	341.5	311.7	297.9	291.0	281.9	279.6
40°	7860.4	3870.6	694.4	430.8	352.9	309.4	281.9	265.8	256.7	247.5	245.2
42.5°	8877.9	4067.7	653.1	389.6	318.5	279.6	252.1	233.7	217.7	206.2	201.7
45°	10195.6	4326.7	589.0	346.0	288.7	247.5	222.3	199.4	178.7	169.6	167.3
47.5°	11577.5	4576.5	531.7	311.7	256.7	220.0	192.5	167.3	149.0	142.1	139.8
50°	12425.4	4626.9	495.0	272.7	224.6	190.2	162.7	139.8	128.3	121.5	121.5
52.5°	12812.7	4546.7	444.6	238.3	194.8	167.3	139.8	121.5	114.6	110.0	107.7
55°	13083.1	4422.9	378.1	206.2	167.3	142.1	123.7	110.0	100.8	96.2	94.0
57°	13241.2	4255.6	327.7	181.0	144.4	123.7	110.0	98.5	89.4	80.2	80.2
57.5°	13248.1	4191.5	314.0	178.7	137.5	119.2	107.7	96.2	84.8	75.6	73.3
60°	13044.1	3751.5	252.1	151.2	110.0	100.8	89.4	75.6	59.6	50.4	48.1
62.5°	12388.7	3192.3	208.5	128.3	89.4	77.9	64.2	57.3	41.2	29.8	29.8
65°	11396.4	2589.6	178.7	103.1	73.3	57.3	43.5	41.2	25.2	13.7	11.5
67.5°	9961.9	2016.7	151.2	84.8	61.9	41.2	29.8	27.5	13.7	4.6	0.0
70°	7590.0	1375.0	126.0	68.7	45.8	29.8	20.6	16.0	9.2	2.3	0.0
72.5°	4374.8	756.2	105.4	52.7	34.4	22.9	16.0	9.2	9.2	0.0	0.0
75°	1562.9	325.4	80.2	39.0	27.5	18.3	11.5	4.6	6.9	2.3	0.0
77.5°	497.3	174.2	52.7	29.8	22.9	13.7	9.2	4.6	4.6	2.3	0.0
80°	146.7	91.7	32.1	25.2	16.0	11.5	6.9	2.3	4.6	2.3	0.0
82.5°	80.2	45.8	25.2	18.3	16.0	9.2	6.9	2.3	2.3	2.3	0.0
85°	41.2	27.5	20.6	18.3	16.0	9.2	6.9	2.3	0.0	2.3	2.3
87.5°	22.9	20.6	20.6	18.3	16.0	11.5	6.9	2.3	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)