

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: P458153

Luminaire Tested: **GALN-SA9C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458153
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-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 47646 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

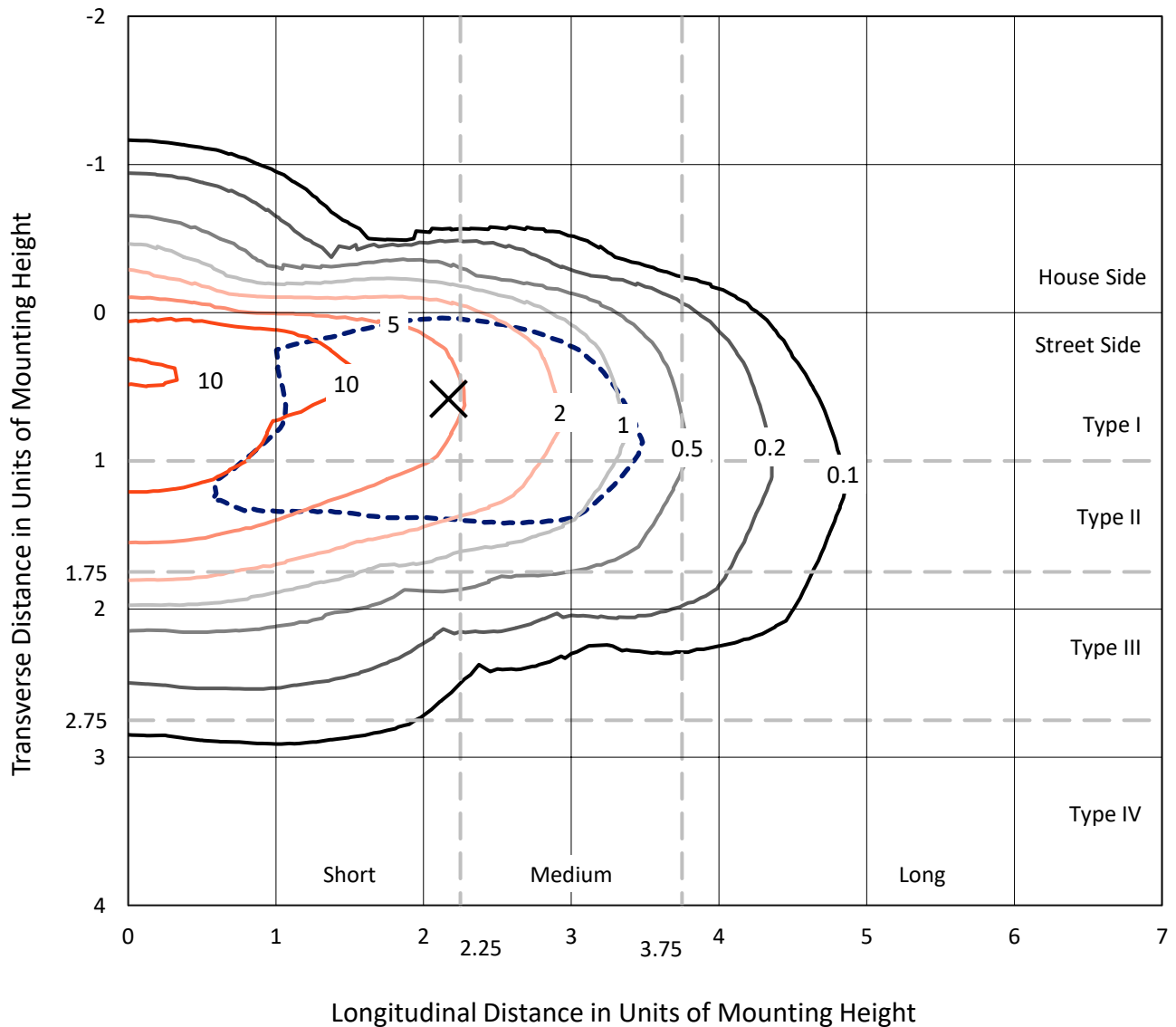
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

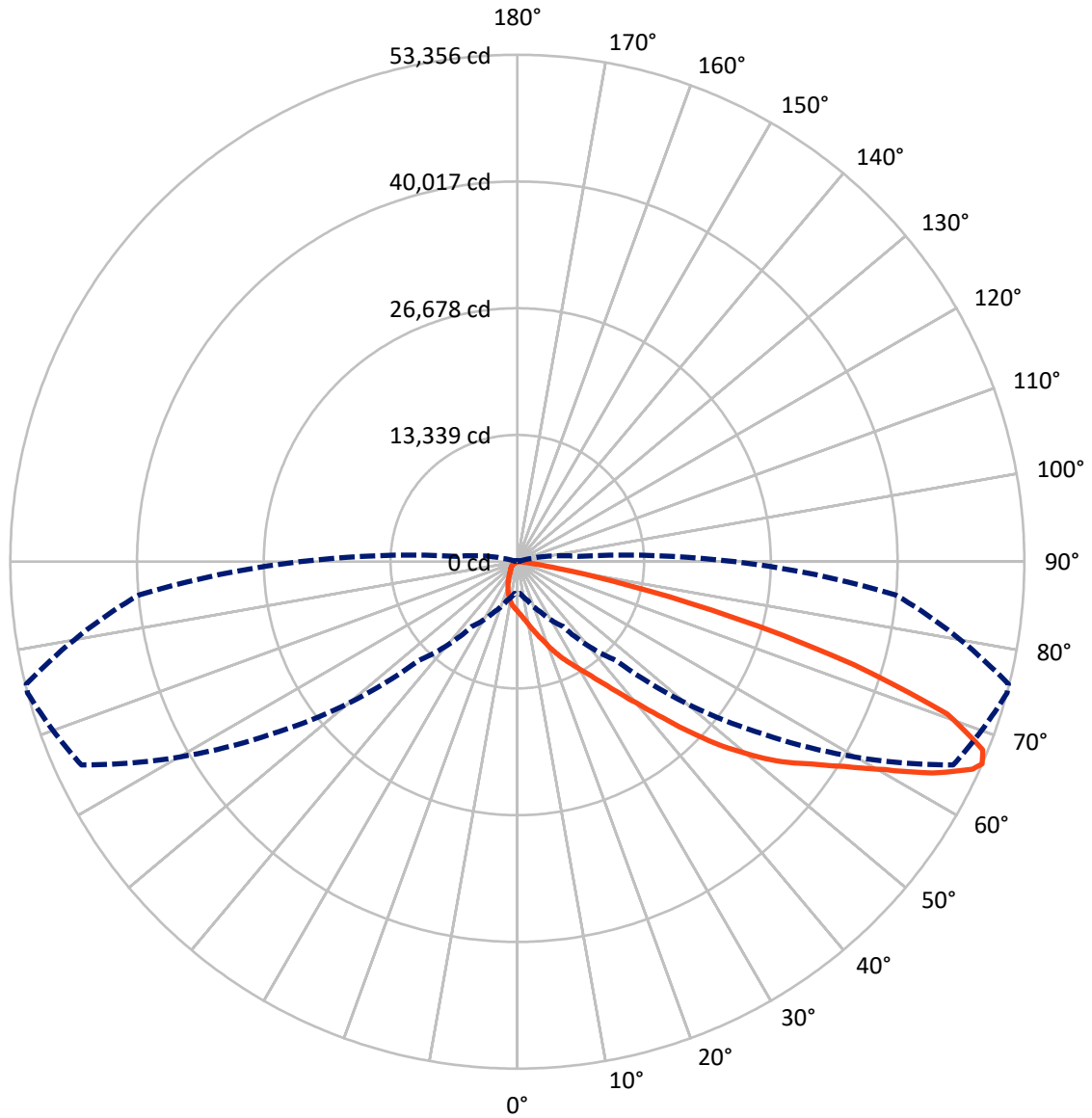
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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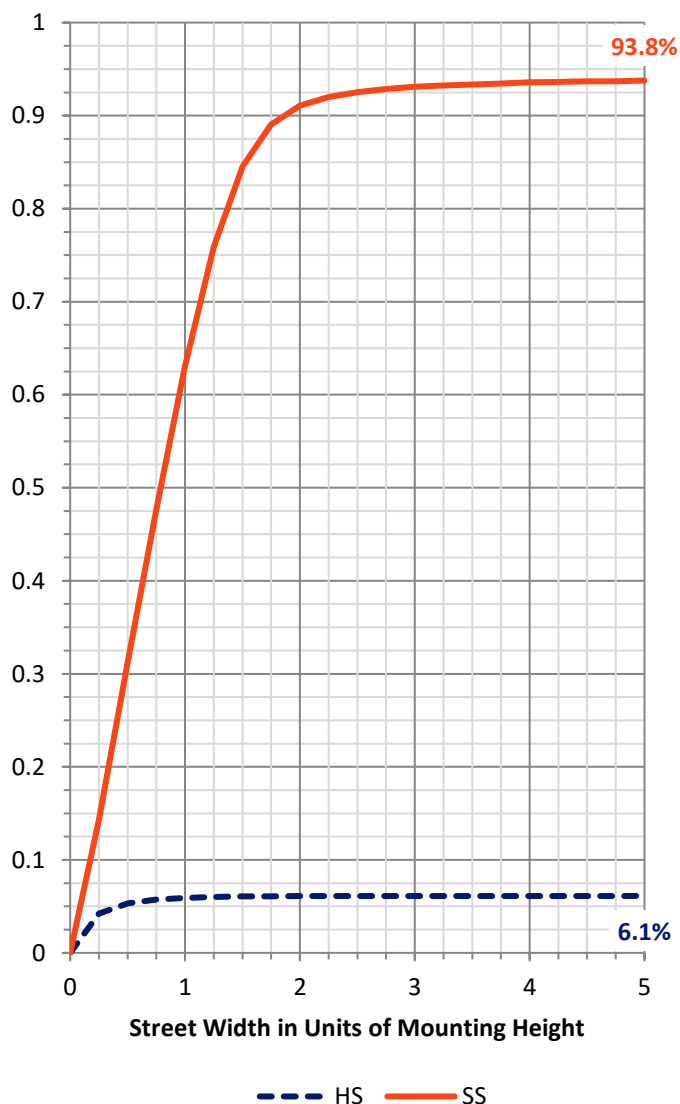
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2941.5	0.0	2941.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	44704.5	0.0	44704.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	47646.0	0.0	47646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.6	1.1
10°-20°	1479.1	3.1
20°-30°	2554.0	5.4
30°-40°	4607.0	9.7
40°-50°	8322.6	17.5
50°-60°	12975.0	27.2
60°-70°	12325.7	25.9
70°-80°	4619.4	9.7
80°-90°	260.6	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°	47646.0	100.0
0°-180°	47646.0	100.0

Coefficient of Utilization



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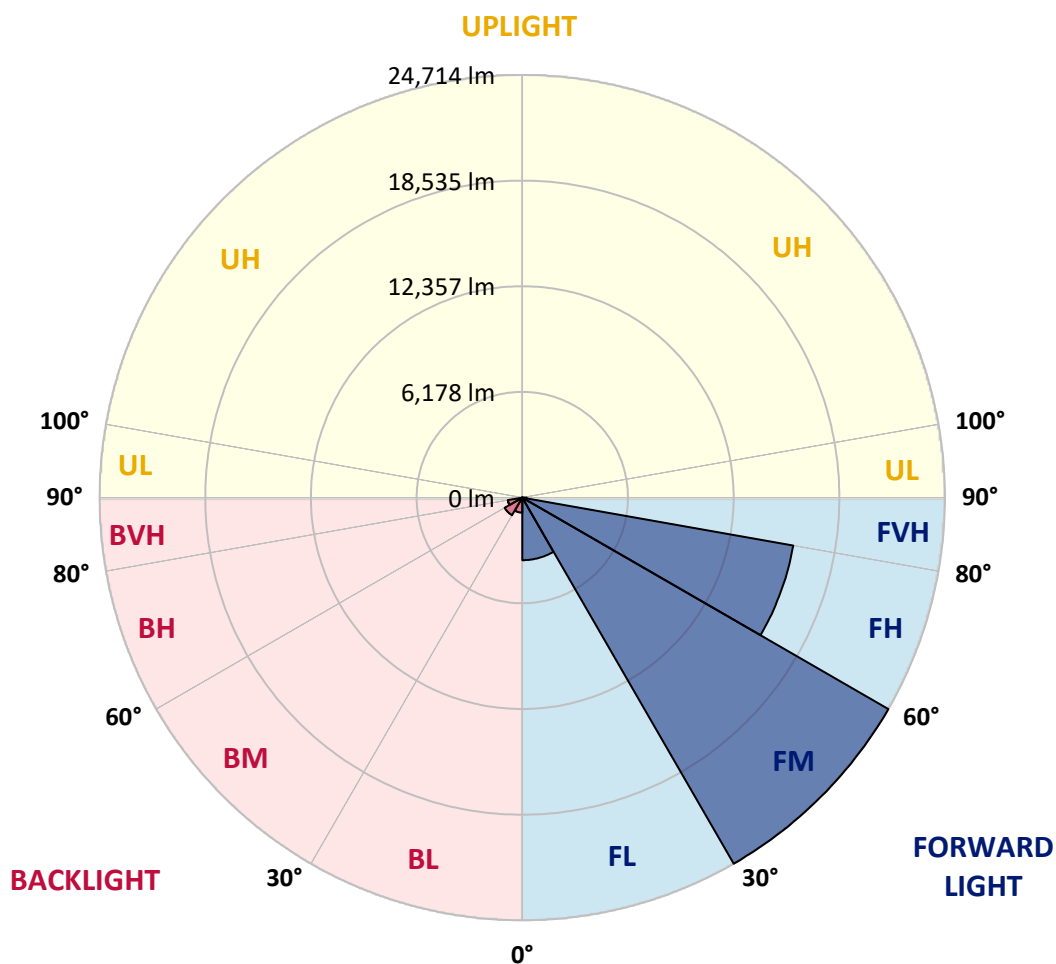
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3657.2	7.7			
FM	(30°-60°)	24714.0	51.9			
FH	(60°-80°)	16086.2	33.8			G5
FVH	(80°-90°)	247.2	0.5			G3/500
BL	(0°-30°)	878.5	1.8	B2/1000		
BM	(30°-60°)	1190.6	2.5	B2/2500		
BH	(60°-80°)	858.9	1.8	B2/1000		G2/1000
BVH	(80°-90°)	13.4	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°	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6
2.5°	6225.2	6147.7	6172.3	6137.1	6056.1	5936.3	5830.6	5679.1	5527.6	5503.0	5333.9
5°	7046.1	7024.9	6996.7	6894.6	6838.2	6655.0	6436.6	6175.9	5862.3	5806.0	5499.4
7.5°	7606.2	7595.7	7609.7	7556.9	7507.6	7342.0	7109.5	6753.6	6267.5	6235.8	5724.9
10°	7789.4	7817.6	7870.4	7955.0	8032.5	7979.7	7803.5	7359.6	6792.4	6700.8	5982.1
12.5°	7683.7	7715.4	7842.3	8067.7	8317.9	8462.3	8391.9	8067.7	7349.0	7275.1	6271.0
15°	7412.5	7451.2	7630.9	7979.7	8427.1	8835.8	9011.9	8779.4	7997.3	7877.5	6619.8
17.5°	7010.8	7067.2	7324.4	7785.9	8398.9	9103.5	9600.3	9522.7	8687.8	8575.1	7000.3
20°	6707.8	6750.1	6968.6	7497.0	8279.1	9251.5	10160.4	10378.8	9540.4	9346.6	7447.7
22.5°	6908.7	6922.8	6996.7	7313.8	8064.2	9290.2	10653.6	11270.2	10445.8	10273.2	7912.7
25°	7891.6	7750.7	7676.7	7606.2	8018.4	9255.0	11101.1	12200.3	11347.7	11164.5	8374.2
27.5°	9441.7	9378.3	9004.9	8504.6	8409.5	9300.8	11397.0	13081.0	12196.7	11999.4	8825.2
30°	11129.3	11020.0	10791.0	10058.3	9321.9	9624.9	11611.9	13937.1	13200.8	12940.1	9237.4
32.5°	12679.4	12749.8	12408.1	11654.2	10801.6	10315.4	11890.2	14870.7	14352.8	14028.7	9716.5
35°	14486.7	14627.6	14102.7	13380.5	12383.4	11562.6	12432.8	15924.1	15814.9	15406.2	10456.4
37.5°	16322.2	16406.7	16086.2	15071.5	14173.1	13147.9	13454.5	17224.1	17615.1	17266.4	11340.6
40°	17865.3	17981.5	17745.5	16843.6	15885.3	14983.4	14937.6	18640.4	19757.2	19397.8	12658.2
42.5°	19045.5	19133.6	19140.6	18503.0	17639.8	17231.1	16829.5	20447.7	22441.7	22026.0	14187.2
45°	20535.7	20662.6	20588.6	20155.3	19510.5	19436.6	19228.7	22631.9	25654.7	25129.8	16170.7
47.5°	22839.8	22924.4	22741.2	22230.3	21575.0	21691.3	21568.0	25080.4	28931.1	28480.2	18224.6
50°	24439.3	24580.2	24840.9	25045.2	24569.6	24139.8	23773.4	27366.9	32042.0	31636.8	20324.4
52.5°	24421.6	24654.2	25478.6	26507.3	27546.6	27416.2	26362.8	29892.9	35011.9	34511.6	22297.3
55°	22776.4	23227.3	24439.3	26264.2	29142.5	30576.4	30097.2	32817.0	37576.6	37238.4	24583.7
57.5°	19380.2	19655.0	21339.0	23889.7	28251.2	32063.1	34423.5	36780.4	40652.2	40493.7	28134.9
60°	13035.2	13158.5	15325.2	18478.3	24051.7	30579.9	37594.3	41575.3	44439.5	44362.0	32281.5
62.5°	7468.8	7521.7	9092.9	11752.8	17114.9	25915.4	37862.0	47490.4	48980.7	49023.0	37079.9
65°	4019.8	4048.0	5316.3	6898.1	10414.1	18471.2	34046.6	50731.6	52651.7	52732.7	40053.3
66°	3470.2	3336.3	4231.2	5879.9	8286.2	14701.6	31633.3	50615.4	53356.3	53268.2	39947.6
67.5°	2638.7	2758.5	3378.6	4520.0	6140.6	10452.8	26116.2	48364.2	52820.8	52546.0	38323.5
70°	1888.3	1937.7	2406.2	3223.6	4181.8	5735.5	16688.6	40169.6	48008.3	47638.4	33387.8
72.5°	1219.0	1271.8	1705.1	2332.2	3022.8	3132.0	9343.1	29022.7	37013.0	36960.1	25143.9
75°	870.2	919.5	1127.4	1669.9	2272.4	1937.7	4498.9	19559.9	23530.3	23371.8	15554.2
77.5°	630.6	655.3	753.9	1092.1	1624.1	1388.1	2085.6	10445.8	11714.1	12267.2	6873.4
80°	362.9	384.0	524.9	665.9	1099.2	947.7	997.0	4192.4	4322.8	4114.9	2149.0
82.5°	179.7	204.3	313.5	454.5	687.0	637.7	458.0	1261.2	1331.7	1296.5	542.5
85°	42.3	52.8	176.2	299.5	334.7	285.4	222.0	369.9	458.0	447.4	207.9
87.5°	3.5	7.0	63.4	52.8	56.4	95.1	77.5	95.1	148.0	137.4	74.0
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°	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6	5210.6
2.5°	5256.4	5189.4	4995.7	4805.4	4646.9	4481.3	4329.8	4241.7	4206.5	4167.7	4185.4
5°	5330.3	5168.3	4777.2	4439.0	4107.9	3826.0	3600.5	3456.1	3385.6	3375.1	3357.4
7.5°	5429.0	5150.7	4544.7	4016.3	3582.9	3269.4	3012.2	2804.3	2740.9	2684.5	2638.7
10°	5548.8	5119.0	4255.8	3572.4	3110.8	2716.3	2378.0	2131.4	2004.6	1969.4	1994.0
12.5°	5675.6	5059.1	3952.8	3163.7	2631.7	2127.9	1814.4	1691.1	1655.8	1641.7	1645.3
15°	5802.4	4985.1	3635.8	2769.1	2096.2	1698.1	1553.7	1521.9	1507.9	1500.8	1493.8
17.5°	5918.7	4865.3	3279.9	2385.1	1698.1	1451.5	1398.6	1370.5	1342.3	1331.7	1314.1
20°	6056.1	4727.9	2959.3	1955.3	1437.4	1314.1	1250.7	1197.8	1155.6	1127.4	1123.8
22.5°	6186.4	4551.8	2624.7	1620.6	1310.6	1180.2	1078.0	1021.7	972.4	937.1	947.7
25°	6256.9	4336.8	2325.2	1412.7	1194.3	1046.3	933.6	863.1	810.3	792.7	789.2
27.5°	6256.9	4072.6	2032.8	1293.0	1088.6	926.6	810.3	743.4	708.1	683.5	687.0
30°	6207.6	3780.2	1761.5	1201.4	997.0	820.9	711.7	651.8	623.6	606.0	602.4
32.5°	6168.8	3501.9	1529.0	1113.3	901.9	729.3	634.1	588.3	560.2	542.5	542.5
35°	6228.7	3262.3	1349.3	1025.2	813.8	658.8	574.3	532.0	503.8	489.7	486.2
37.5°	6387.3	3043.9	1211.9	930.1	732.8	598.9	532.0	482.7	454.5	436.9	429.8
40°	6778.3	2920.6	1109.8	842.0	655.3	549.6	482.7	436.9	401.6	384.0	380.5
42.5°	7405.4	2924.1	1011.1	761.0	595.4	507.3	440.4	387.5	348.8	331.2	327.6
45°	8349.6	3058.0	933.6	683.5	542.5	461.5	394.6	338.2	303.0	285.4	285.4
47.5°	9480.5	3318.7	866.7	616.5	493.2	419.2	348.8	292.4	257.2	243.1	243.1
50°	10706.5	3656.9	799.7	546.1	450.9	373.4	299.5	253.7	225.5	214.9	214.9
52.5°	11957.2	4065.6	732.8	489.7	405.1	324.1	257.2	225.5	200.8	193.8	190.2
55°	13598.9	4587.0	662.3	429.8	355.8	278.3	229.0	197.3	169.1	158.5	155.0
57.5°	16124.9	5372.6	584.8	377.0	292.4	232.5	197.3	165.6	133.9	116.3	112.7
60°	19172.3	6330.9	503.8	331.2	236.0	190.2	158.5	126.8	98.6	77.5	74.0
62.5°	22026.0	6940.4	426.3	278.3	186.7	144.4	112.7	95.1	70.5	49.3	45.8
65°	23287.2	6736.0	352.3	225.5	148.0	102.2	74.0	66.9	42.3	21.1	17.6
66°	22868.0	6433.1	324.1	204.3	133.9	88.1	63.4	56.4	31.7	10.6	10.6
67.5°	21631.4	5717.9	281.8	176.2	116.3	70.5	49.3	42.3	17.6	3.5	0.0
70°	18534.7	4625.7	222.0	130.4	84.6	49.3	28.2	21.1	10.6	0.0	0.0
72.5°	14236.6	3445.5	176.2	98.6	59.9	28.2	14.1	7.0	10.6	0.0	0.0
75°	8723.0	1969.4	137.4	74.0	38.8	17.6	10.6	0.0	10.6	3.5	0.0
77.5°	3871.8	884.3	91.6	49.3	28.2	14.1	7.0	0.0	7.0	3.5	0.0
80°	979.4	288.9	52.8	35.2	21.1	10.6	3.5	0.0	7.0	7.0	3.5
82.5°	267.8	105.7	38.8	28.2	17.6	10.6	3.5	0.0	7.0	7.0	7.0
85°	105.7	49.3	35.2	28.2	21.1	10.6	3.5	0.0	7.0	7.0	7.0
87.5°	49.3	35.2	35.2	31.7	24.7	10.6	3.5	0.0	7.0	3.5	7.0
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)