

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: P458129

Luminaire Tested: **GALN-SA9C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57560 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

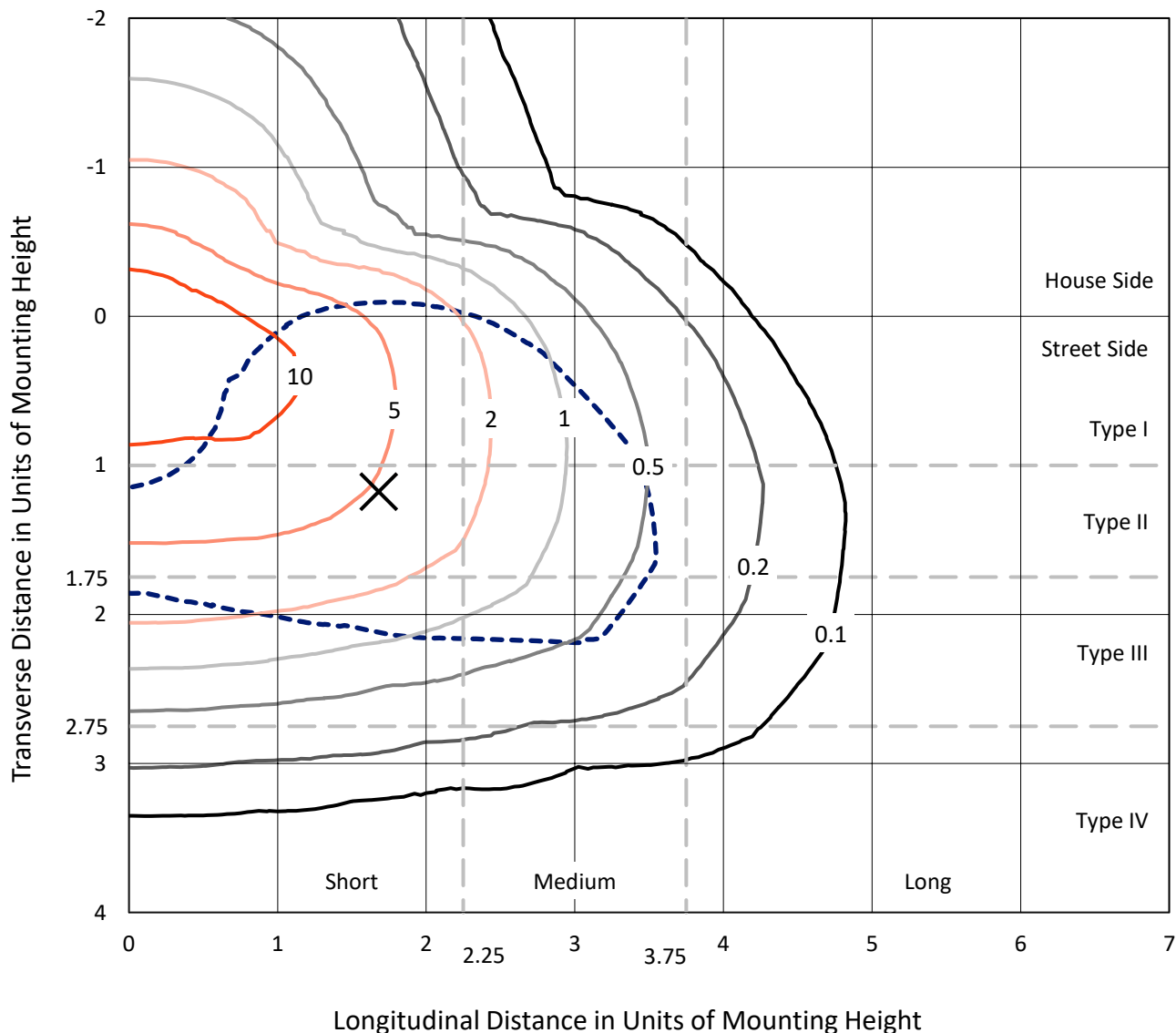
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

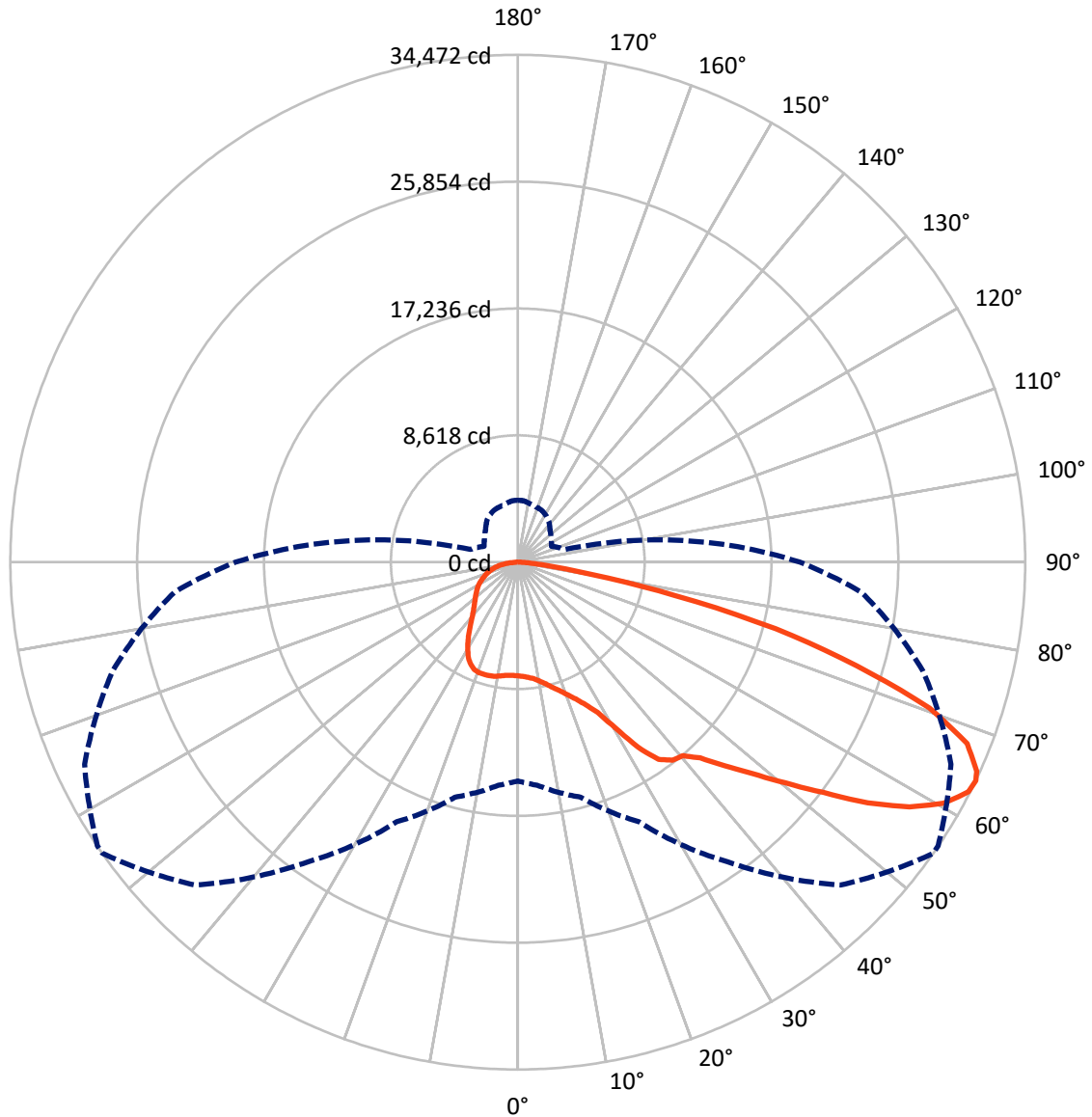
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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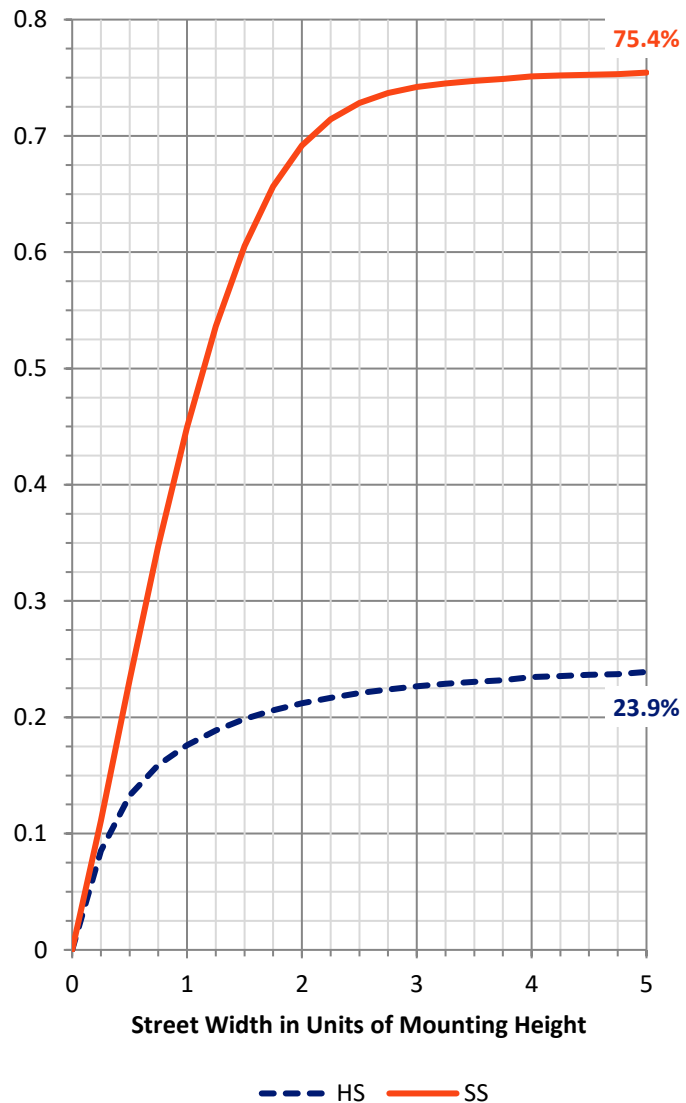
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13982.5	0.0	13982.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	43577.5	0.0	43577.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	57560.0	0.0	57560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.2	1.3
10°-20°	2370.3	4.1
20°-30°	4219.8	7.3
30°-40°	6492.7	11.3
40°-50°	9203.9	16.0
50°-60°	13322.4	23.1
60°-70°	13787.3	24.0
70°-80°	6456.6	11.2
80°-90°	955.8	1.7
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°	57560.0	100.0
0°-180°	57560.0	100.0



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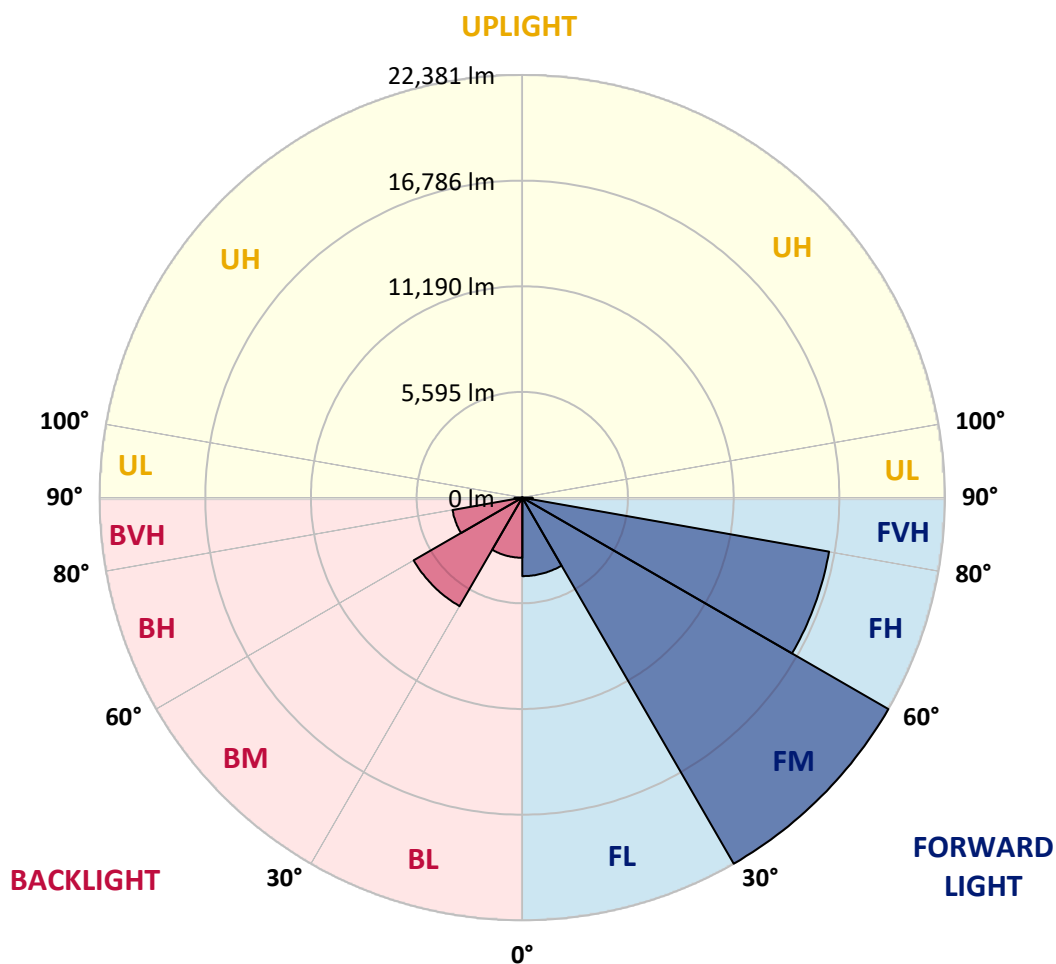
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4156.7	7.2			
FM	(30°-60°)	22380.9	38.9			
FH	(60°-80°)	16492.6	28.7			G5
FVH	(80°-90°)	547.3	1.0			G4/750
BL	(0°-30°)	3184.7	5.5	B4/5000		
BM	(30°-60°)	6638.0	11.5	B4/8500		
BH	(60°-80°)	3751.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	408.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8
2.5°	7809.4	7806.2	7815.9	7806.2	7812.7	7790.2	7780.6	7787.0	7777.4	7761.3	7732.4
5°	7905.7	7902.5	7905.7	7892.9	7899.3	7886.4	7864.0	7870.4	7854.4	7819.1	7777.4
7.5°	8069.3	8056.5	8056.5	8053.3	8040.5	8021.2	8005.2	7998.7	7982.7	7937.8	7873.6
10°	8281.1	8281.1	8284.3	8258.6	8274.7	8239.4	8223.3	8220.1	8165.6	8107.8	8018.0
12.5°	8560.2	8576.3	8566.6	8553.8	8547.4	8534.6	8480.0	8492.9	8431.9	8332.4	8223.3
15°	8906.7	8932.4	8916.4	8910.0	8893.9	8845.8	8823.3	8813.7	8733.5	8589.1	8444.7
17.5°	9365.6	9333.5	9320.6	9304.6	9237.2	9201.9	9163.4	9157.0	9086.4	8916.4	8691.8
20°	9766.6	9811.5	9785.9	9769.8	9702.4	9635.1	9606.2	9596.6	9535.6	9349.5	8990.2
22.5°	10244.7	10254.3	10263.9	10225.4	10193.3	10142.0	10090.7	10074.6	10052.2	9859.7	9420.1
25°	10754.8	10793.3	10761.2	10722.7	10684.2	10681.0	10729.2	10722.7	10713.1	10527.0	9991.2
27.5°	11585.8	11621.1	11630.7	11589.0	11441.4	11454.3	11563.4	11598.7	11746.3	11438.2	10726.0
30°	12054.3	12089.6	12169.8	12327.0	12561.2	12766.5	13029.6	13109.9	13251.0	12670.3	11598.7
32.5°	12343.0	12355.9	12500.2	12792.2	13494.9	14261.7	14977.2	15006.1	15095.9	14281.0	12397.6
35°	12798.6	12808.3	12923.8	13244.6	14069.2	15346.2	16453.1	16488.4	16414.6	14781.5	12769.8
37.5°	13360.1	13385.8	13459.6	13725.9	14710.9	16254.2	17065.9	17040.2	16385.7	15179.3	13427.5
40°	14178.3	14178.3	14091.7	14451.0	15387.9	16773.9	17280.9	17236.0	17062.7	16331.2	14428.5
42.5°	14900.2	14887.4	15092.7	15336.5	16234.9	17576.1	18182.5	18256.3	18541.8	17778.2	15567.6
45°	15840.3	15898.0	16013.5	16456.3	17675.5	18946.1	19729.0	19799.5	20203.8	19481.9	16899.1
47.5°	16790.0	16809.2	17171.8	17762.2	19459.4	20803.8	21445.5	21561.0	21930.0	21474.4	18333.3
50°	17463.8	17646.6	18227.4	19157.8	21297.9	23069.0	23569.5	23707.5	24358.8	23643.3	20004.9
52.5°	18176.0	18355.7	19064.8	20482.9	23409.1	25385.5	26001.5	26094.6	26771.6	25837.9	21715.0
55°	18785.7	18952.5	19757.8	21657.2	25090.3	27750.2	28866.7	28757.6	29081.7	27528.8	23033.7
57.5°	18885.1	19019.9	20033.8	22408.0	26354.5	29777.9	31378.9	31443.1	31067.7	28792.9	24121.4
60°	18115.1	18391.0	19555.7	22327.8	26922.4	31189.6	33252.7	33297.6	32232.4	29441.0	24554.5
62.5°	16751.5	16722.6	18131.1	21038.0	26126.7	31510.5	34356.4	34308.3	32688.0	29129.8	24134.2
64°	14868.1	15214.6	16530.1	19453.0	24843.3	31016.4	34471.9	34446.3	32469.8	28481.7	23418.7
65°	13719.5	13700.2	14999.7	18156.8	23566.3	30272.0	34266.6	34231.3	32014.2	27901.0	22863.6
67.5°	9904.6	9949.5	11232.9	14011.4	19157.8	27361.9	32928.6	32797.1	30217.5	25975.9	20752.5
70°	5999.9	6025.5	7033.0	9295.0	13751.6	22119.3	29681.7	29688.1	27467.8	23101.1	17662.7
72.5°	3160.4	3227.7	3632.0	5278.0	8351.7	15519.4	24079.7	24650.8	23582.3	19716.1	13953.7
75°	1758.2	1767.9	2053.4	2602.1	4260.9	8685.4	18099.0	18262.7	18670.2	15869.1	10318.5
77.5°	1341.1	1360.4	1450.2	1681.2	2319.7	4026.6	10953.8	11775.1	13158.0	11188.0	5887.6
80°	1087.7	1106.9	1183.9	1321.9	1543.3	1909.0	5088.7	5531.4	7042.6	4966.7	2297.3
82.5°	847.0	834.2	933.7	1023.5	1123.0	1129.4	2088.7	2310.1	2868.4	2136.8	994.6
85°	628.9	628.9	709.1	689.8	725.1	660.9	920.8	1017.1	1148.6	908.0	462.0
87.5°	250.3	275.9	465.2	417.1	324.1	259.9	340.1	359.3	397.9	356.1	192.5
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°	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8	7722.8
2.5°	7735.6	7745.3	7722.8	7706.8	7700.4	7690.7	7681.1	7684.3	7697.1	7710.0	7706.8
5°	7774.2	7777.4	7738.9	7719.6	7706.8	7693.9	7693.9	7703.6	7729.2	7748.5	7748.5
7.5°	7870.4	7870.4	7815.9	7780.6	7761.3	7738.9	7732.4	7735.6	7754.9	7780.6	7783.8
10°	8021.2	8008.4	7937.8	7883.2	7847.9	7793.4	7745.3	7719.6	7729.2	7745.3	7745.3
12.5°	8204.1	8168.8	8079.0	8005.2	7918.5	7815.9	7716.4	7665.1	7661.9	7677.9	7671.5
15°	8399.8	8361.3	8236.2	8101.4	7950.6	7799.8	7681.1	7607.3	7549.6	7533.5	7568.8
17.5°	8627.6	8547.4	8374.1	8188.0	7963.5	7767.7	7581.6	7430.8	7328.2	7299.3	7308.9
20°	8903.5	8797.7	8563.4	8271.5	7953.8	7652.2	7363.5	7161.3	6994.5	6943.2	6949.6
22.5°	9285.3	9102.5	8759.2	8313.2	7873.6	7434.1	7033.0	6769.9	6567.8	6487.5	6535.7
25°	9718.5	9519.6	8945.2	8303.5	7665.1	7084.3	6641.6	6298.2	6115.4	5996.7	6022.3
27.5°	10315.3	9962.3	9144.2	8216.9	7366.7	6657.6	6144.2	5820.2	5653.3	5592.4	5621.3
30°	11078.9	10536.7	9359.1	7982.7	6895.0	6118.6	5643.7	5432.0	5332.5	5255.5	5281.2
32.5°	11630.7	10940.9	9407.3	7588.1	6384.9	5627.7	5303.6	5146.4	5037.3	4963.5	4979.6
35°	12025.4	11284.2	9384.8	7103.6	5852.3	5223.4	5034.1	4905.8	4729.3	4568.9	4540.0
37.5°	12554.8	11714.2	9221.2	6574.2	5326.1	4950.7	4815.9	4578.5	4325.0	4110.1	4100.4
40°	13366.5	12217.9	8871.5	5951.7	4876.9	4748.6	4584.9	4276.9	4004.2	3830.9	3818.1
42.5°	14203.9	12683.1	8396.6	5297.2	4507.9	4536.8	4337.9	4033.1	3866.2	3753.9	3741.1
45°	15227.5	13186.9	7883.2	4729.3	4235.2	4337.9	4122.9	3946.4	3847.0	3773.2	3753.9
47.5°	16334.4	13703.4	7305.7	4219.2	4004.2	4155.0	4033.1	3952.8	3898.3	3847.0	3824.5
50°	17527.9	14281.0	6763.5	3808.5	3795.6	3965.7	4023.4	3994.6	3962.5	3946.4	3927.2
52.5°	18837.0	14871.3	6307.9	3519.7	3612.8	3830.9	4026.6	4049.1	4049.1	4039.5	4026.6
55°	19722.5	15282.0	5845.9	3285.5	3426.7	3721.8	4020.2	4106.9	4138.9	4126.1	4113.3
57.5°	20377.1	15506.6	5265.1	3083.4	3269.4	3616.0	3984.9	4113.3	4145.4	4161.4	4155.0
60°	20511.8	15298.0	4504.7	2871.6	3099.4	3462.0	3856.6	4017.0	4058.7	4158.2	4167.8
62.5°	19905.4	14656.3	3747.5	2663.0	2890.8	3227.7	3683.3	3907.9	3991.4	4145.4	4161.4
64°	19161.1	13937.6	3327.2	2531.5	2756.1	3096.2	3596.7	3879.1	3988.1	4193.5	4206.3
65°	18615.6	13414.7	3064.1	2448.1	2669.5	3009.6	3548.6	3888.7	4017.0	4267.3	4286.5
67.5°	16607.1	11614.7	2534.7	2252.4	2464.1	2862.0	3558.2	3968.9	4010.6	4296.2	4292.9
70°	13741.9	9246.8	2124.0	2072.7	2265.2	2743.3	3519.7	3840.6	3843.8	4033.1	3988.1
72.5°	10289.6	6834.1	1841.7	1886.6	2043.8	2460.9	3324.0	3667.3	3612.8	3638.4	3593.5
75°	7068.3	4520.8	1585.0	1687.7	1812.8	2175.4	3048.1	3330.4	3243.8	3211.7	3179.6
77.5°	3773.2	2499.4	1318.7	1491.9	1575.4	1880.2	2659.8	2932.6	2842.7	2717.6	2675.9
80°	1527.2	1177.5	1062.0	1235.3	1283.4	1514.4	2213.9	2383.9	2316.5	2098.3	2027.8
82.5°	766.8	705.9	834.2	972.2	975.4	1081.3	1646.0	1806.4	1655.6	1389.3	1328.3
85°	401.1	413.9	574.3	683.4	603.2	583.9	988.2	1094.1	1004.3	872.7	786.1
87.5°	144.4	166.8	301.6	298.4	211.8	112.3	218.2	105.9	57.8	35.3	44.9
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)