

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: P457892

Luminaire Tested: **GALN-SA9B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457892
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-SA9B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 35120 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

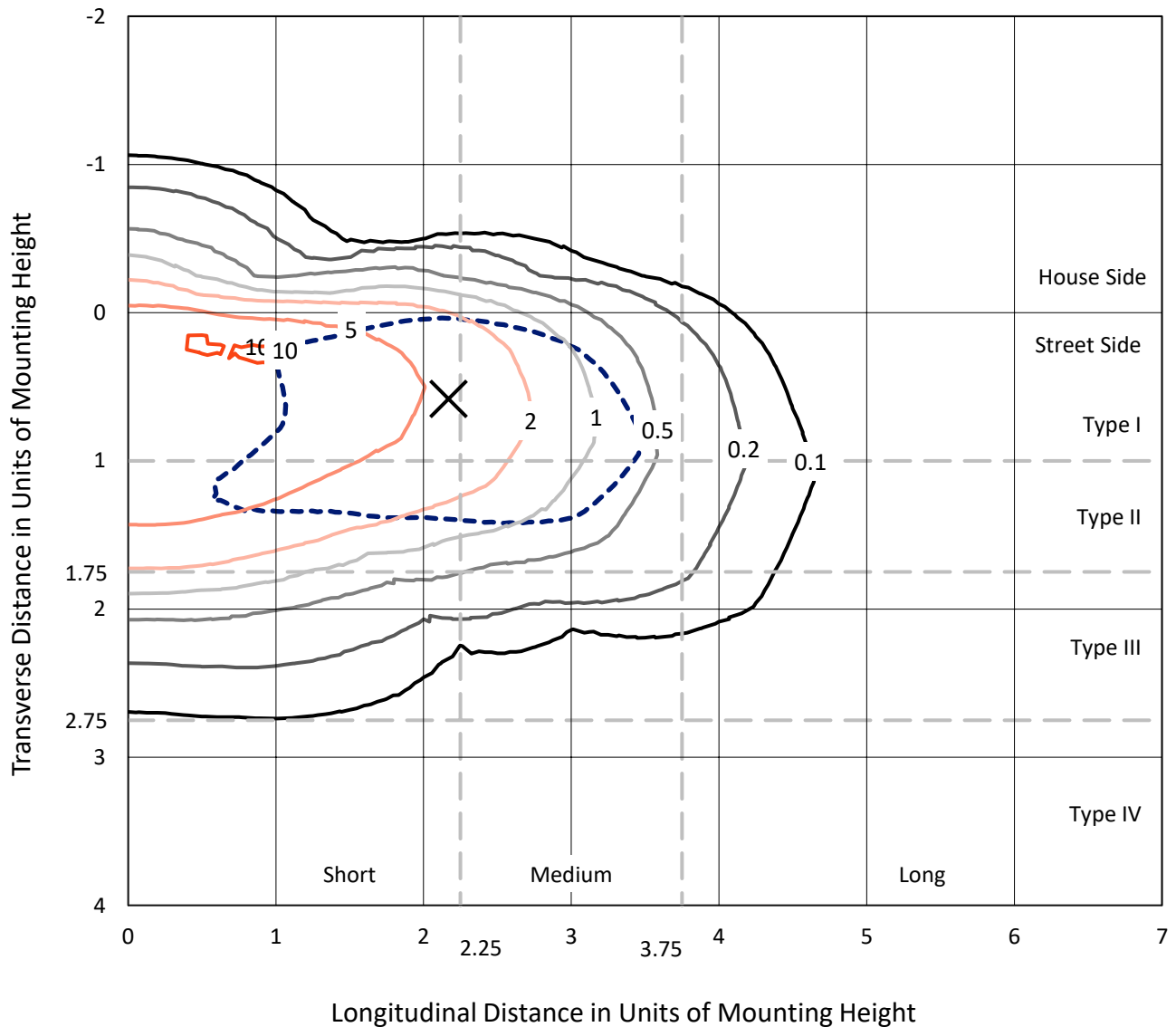
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

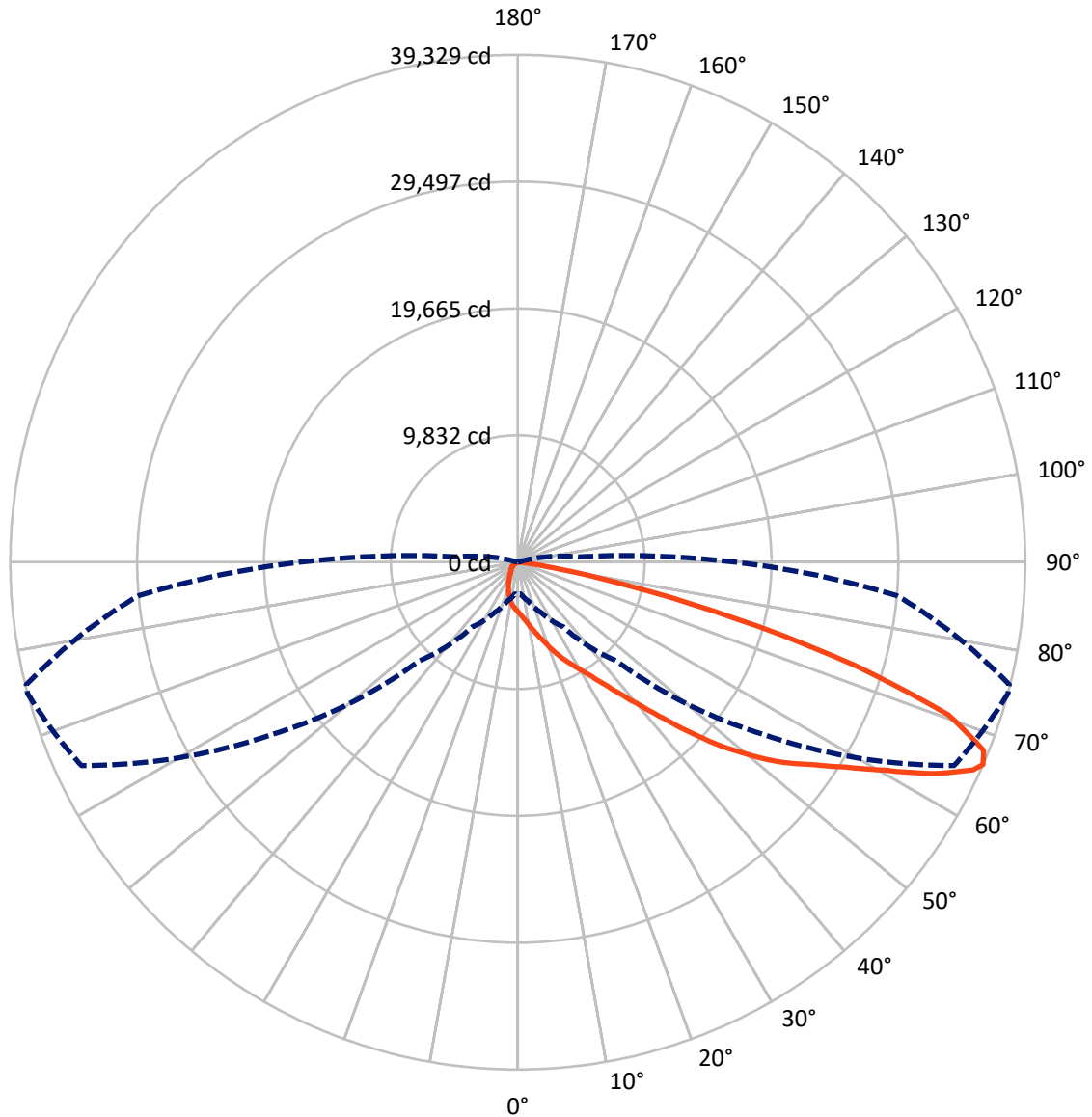
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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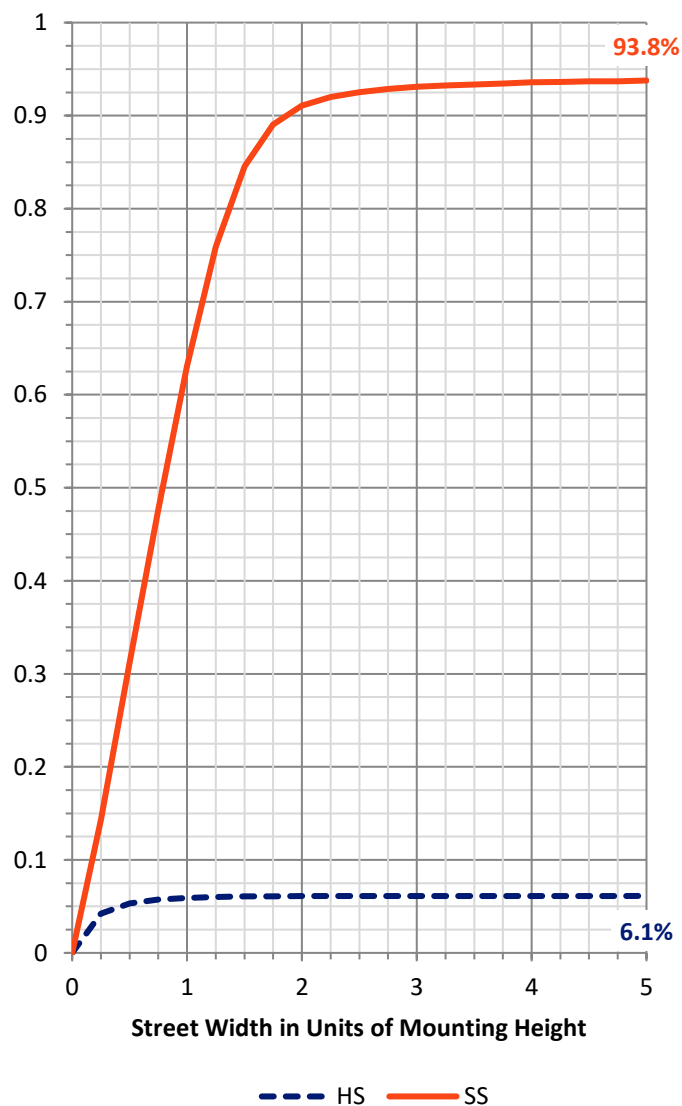
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2168.2	0.0	2168.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	32951.8	0.0	32951.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	35120.0	0.0	35120.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	1.1
10°-20°	1090.2	3.1
20°-30°	1882.6	5.4
30°-40°	3395.8	9.7
40°-50°	6134.6	17.5
50°-60°	9563.9	27.2
60°-70°	9085.3	25.9
70°-80°	3405.0	9.7
80°-90°	192.1	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°	35120.0	100.0
0°-180°	35120.0	100.0



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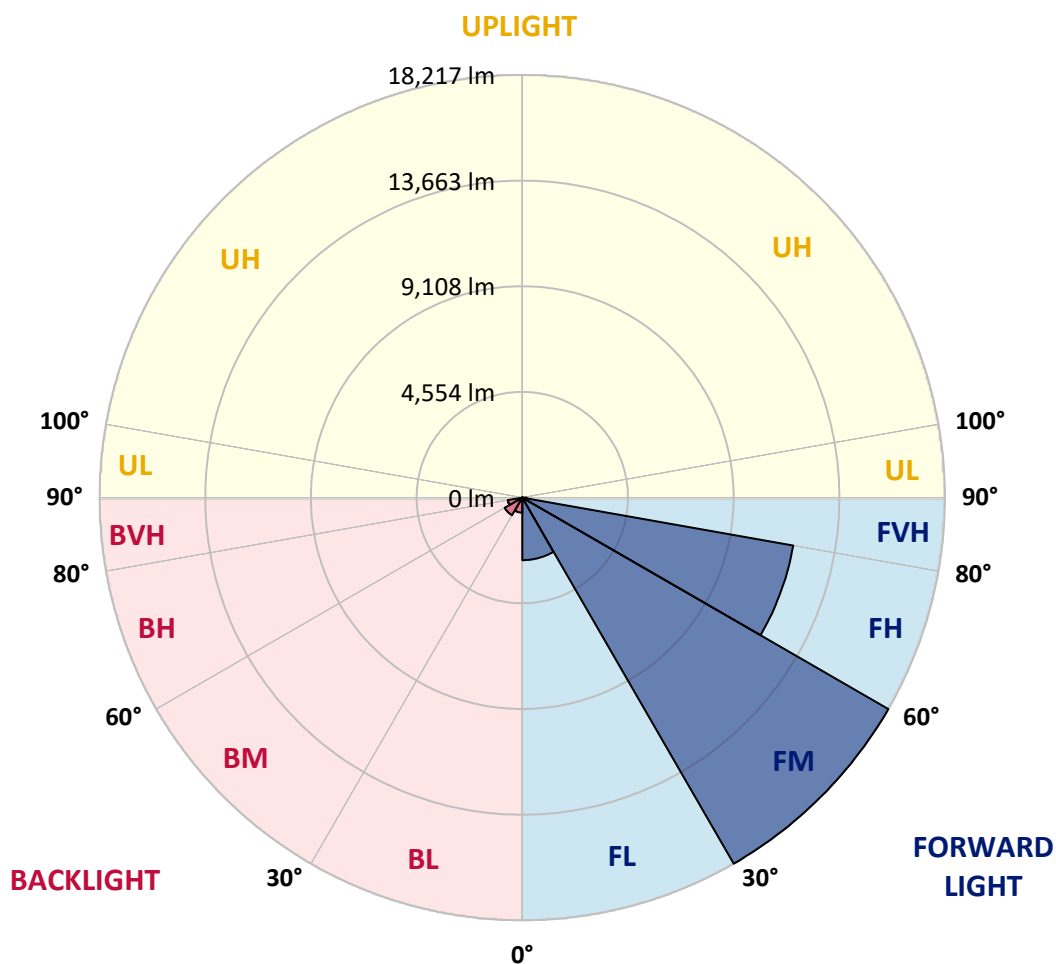
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2695.8	7.7			
FM (30°-60°)	18216.7	51.9			
FH (60°-80°)	11857.2	33.8			G4/12000
FVH (80°-90°)	182.2	0.5			G2/225
BL (0°-30°)	647.5	1.8	B2/1000		
BM (30°-60°)	877.6	2.5	B1/1000		
BH (60°-80°)	633.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7
2.5°	4588.6	4531.5	4549.7	4523.7	4464.0	4375.7	4297.8	4186.1	4074.4	4056.3	3931.6
5°	5193.7	5178.1	5157.3	5082.0	5040.5	4905.4	4744.4	4552.3	4321.1	4279.6	4053.7
7.5°	5606.6	5598.8	5609.2	5570.2	5533.9	5411.8	5240.4	4978.1	4619.8	4596.4	4219.9
10°	5741.6	5762.4	5801.3	5863.7	5920.8	5881.8	5752.0	5424.8	5006.7	4939.2	4409.4
12.5°	5663.7	5687.1	5780.6	5946.8	6131.1	6237.6	6185.7	5946.8	5417.0	5362.5	4622.4
15°	5463.7	5492.3	5624.7	5881.8	6211.6	6512.9	6642.7	6471.3	5894.8	5806.5	4879.5
17.5°	5167.7	5209.3	5398.8	5739.0	6190.9	6710.2	7076.4	7019.2	6403.8	6320.7	5159.9
20°	4944.4	4975.5	5136.5	5526.1	6102.6	6819.3	7489.3	7650.3	7032.2	6889.4	5489.7
22.5°	5092.4	5102.8	5157.3	5391.0	5944.2	6847.9	7852.8	8307.3	7699.6	7572.4	5832.5
25°	5816.9	5713.0	5658.5	5606.6	5910.4	6821.9	8182.6	8992.8	8364.4	8229.4	6172.7
27.5°	6959.5	6912.8	6637.5	6268.8	6198.6	6855.6	8400.8	9642.0	8990.2	8844.8	6505.1
30°	8203.4	8122.9	7954.1	7414.0	6871.2	7094.6	8559.2	10273.1	9730.3	9538.2	6808.9
32.5°	9346.0	9397.9	9146.1	8590.3	7961.9	7603.5	8764.3	10961.2	10579.5	10340.6	7162.1
35°	10678.2	10782.1	10395.1	9862.8	9127.9	8522.8	9164.2	11737.7	11657.2	11356.0	7707.4
37.5°	12031.1	12093.5	11857.1	11109.3	10447.1	9691.4	9917.3	12695.9	12984.2	12727.1	8359.2
40°	13168.6	13254.2	13080.3	12415.5	11709.1	11044.3	11010.6	13739.9	14563.1	14298.2	9330.4
42.5°	14038.5	14103.4	14108.6	13638.6	13002.4	12701.1	12405.1	15072.0	16541.8	16235.4	10457.5
45°	15137.0	15230.4	15175.9	14856.5	14381.3	14326.7	14173.5	16682.1	18910.2	18523.2	11919.5
47.5°	16835.3	16897.6	16762.6	16386.0	15903.0	15988.7	15897.8	18486.9	21325.2	20992.8	13433.4
50°	18014.2	18118.1	18310.3	18460.9	18110.3	17793.5	17523.4	20172.2	23618.2	23319.6	14981.1
52.5°	18001.3	18172.7	18780.3	19538.6	20304.7	20208.6	19432.1	22034.1	25807.3	25438.6	16435.4
55°	16788.5	17120.9	18014.2	19359.4	21481.0	22537.9	22184.8	24189.5	27697.8	27448.5	18120.7
57.5°	14285.2	14487.7	15729.0	17609.1	20824.0	23633.8	25373.7	27111.0	29964.9	29848.0	20738.3
60°	9608.3	9699.2	11296.2	13620.4	17728.6	22540.5	27710.8	30645.3	32756.5	32699.3	23794.8
62.5°	5505.3	5544.2	6702.4	8663.0	12615.4	19102.3	27908.2	35005.3	36103.8	36135.0	27331.7
65°	2963.0	2983.8	3918.6	5084.6	7676.2	13615.2	25095.8	37394.4	38809.7	38869.4	29523.4
66°	2557.9	2459.2	3118.8	4334.1	6107.8	10836.6	23317.0	37308.7	39329.1	39264.1	29445.5
67.5°	1945.0	2033.3	2490.4	3331.7	4526.3	7704.8	19250.3	35649.4	38934.3	38731.8	28248.4
70°	1391.9	1428.3	1773.6	2376.1	3082.4	4227.6	12301.2	29609.1	35387.1	35114.4	24610.2
72.5°	898.5	937.5	1256.9	1719.1	2228.1	2308.6	6886.8	21392.7	27282.3	27243.4	18533.6
75°	641.4	677.8	831.0	1230.9	1675.0	1428.3	3316.2	14417.6	17344.3	17227.4	11465.0
77.5°	464.8	483.0	555.7	805.0	1197.1	1023.2	1537.3	7699.6	8634.5	9042.2	5066.4
80°	267.5	283.1	386.9	490.8	810.2	698.5	734.9	3090.2	3186.3	3033.1	1584.1
82.5°	132.4	150.6	231.1	335.0	506.4	470.0	337.6	929.7	981.6	955.6	399.9
85°	31.2	39.0	129.8	220.7	246.7	210.3	163.6	272.7	337.6	329.8	153.2
87.5°	2.6	5.2	46.7	39.0	41.5	70.1	57.1	70.1	109.1	101.3	54.5
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°	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7	3840.7
2.5°	3874.5	3825.1	3682.3	3542.1	3425.2	3303.2	3191.5	3126.6	3100.6	3072.1	3085.0
5°	3929.0	3809.6	3521.3	3272.0	3027.9	2820.2	2654.0	2547.5	2495.6	2487.8	2474.8
7.5°	4001.7	3796.6	3349.9	2960.4	2641.0	2409.9	2220.3	2067.1	2020.3	1978.8	1945.0
10°	4090.0	3773.2	3137.0	2633.2	2293.0	2002.2	1752.9	1571.1	1477.6	1451.6	1469.8
12.5°	4183.5	3729.1	2913.6	2332.0	1939.8	1568.5	1337.4	1246.5	1220.5	1210.1	1212.7
15°	4277.0	3674.5	2679.9	2041.1	1545.1	1251.7	1145.2	1121.8	1111.4	1106.3	1101.1
17.5°	4362.7	3586.2	2417.7	1758.1	1251.7	1069.9	1030.9	1010.2	989.4	981.6	968.6
20°	4464.0	3485.0	2181.3	1441.2	1059.5	968.6	921.9	882.9	851.8	831.0	828.4
22.5°	4560.0	3355.1	1934.6	1194.5	966.0	869.9	794.6	753.1	716.7	690.8	698.5
25°	4612.0	3196.7	1713.9	1041.3	880.3	771.3	688.2	636.2	597.3	584.3	581.7
27.5°	4612.0	3001.9	1498.4	953.0	802.4	683.0	597.3	547.9	522.0	503.8	506.4
30°	4575.6	2786.4	1298.4	885.5	734.9	605.1	524.6	480.4	459.6	446.7	444.1
32.5°	4547.1	2581.3	1127.0	820.6	664.8	537.5	467.4	433.7	412.9	399.9	399.9
35°	4591.2	2404.7	994.6	755.7	599.9	485.6	423.3	392.1	371.3	361.0	358.4
37.5°	4708.1	2243.7	893.3	685.6	540.1	441.5	392.1	355.8	335.0	322.0	316.8
40°	4996.3	2152.8	818.0	620.6	483.0	405.1	355.8	322.0	296.0	283.1	280.5
42.5°	5458.5	2155.4	745.3	560.9	438.9	373.9	324.6	285.7	257.1	244.1	241.5
45°	6154.5	2254.1	688.2	503.8	399.9	340.2	290.8	249.3	223.3	210.3	210.3
47.5°	6988.1	2446.2	638.8	454.4	363.6	309.0	257.1	215.5	189.6	179.2	179.2
50°	7891.8	2695.5	589.5	402.5	332.4	275.3	220.7	187.0	166.2	158.4	158.4
52.5°	8813.7	2996.7	540.1	361.0	298.6	238.9	189.6	166.2	148.0	142.8	140.2
55°	10023.8	3381.1	488.2	316.8	262.3	205.1	168.8	145.4	124.6	116.9	114.3
57.5°	11885.7	3960.2	431.1	277.9	215.5	171.4	145.4	122.1	98.7	85.7	83.1
60°	14132.0	4666.5	371.3	244.1	174.0	140.2	116.9	93.5	72.7	57.1	54.5
62.5°	16235.4	5115.8	314.2	205.1	137.6	106.5	83.1	70.1	51.9	36.4	33.8
65°	17165.1	4965.1	259.7	166.2	109.1	75.3	54.5	49.3	31.2	15.6	13.0
66°	16856.1	4741.8	238.9	150.6	98.7	64.9	46.7	41.5	23.4	7.8	7.8
67.5°	15944.6	4214.7	207.7	129.8	85.7	51.9	36.4	31.2	13.0	2.6	0.0
70°	13661.9	3409.6	163.6	96.1	62.3	36.4	20.8	15.6	7.8	0.0	0.0
72.5°	10493.8	2539.7	129.8	72.7	44.1	20.8	10.4	5.2	7.8	0.0	0.0
75°	6429.8	1451.6	101.3	54.5	28.6	13.0	7.8	0.0	7.8	2.6	0.0
77.5°	2853.9	651.8	67.5	36.4	20.8	10.4	5.2	0.0	5.2	2.6	0.0
80°	721.9	212.9	39.0	26.0	15.6	7.8	2.6	0.0	5.2	5.2	2.6
82.5°	197.4	77.9	28.6	20.8	13.0	7.8	2.6	0.0	5.2	5.2	5.2
85°	77.9	36.4	26.0	20.8	15.6	7.8	2.6	0.0	5.2	5.2	5.2
87.5°	36.4	26.0	26.0	23.4	18.2	7.8	2.6	0.0	5.2	2.6	5.2
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)