

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: P457200

Luminaire Tested: **GALN-SA8C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37959 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

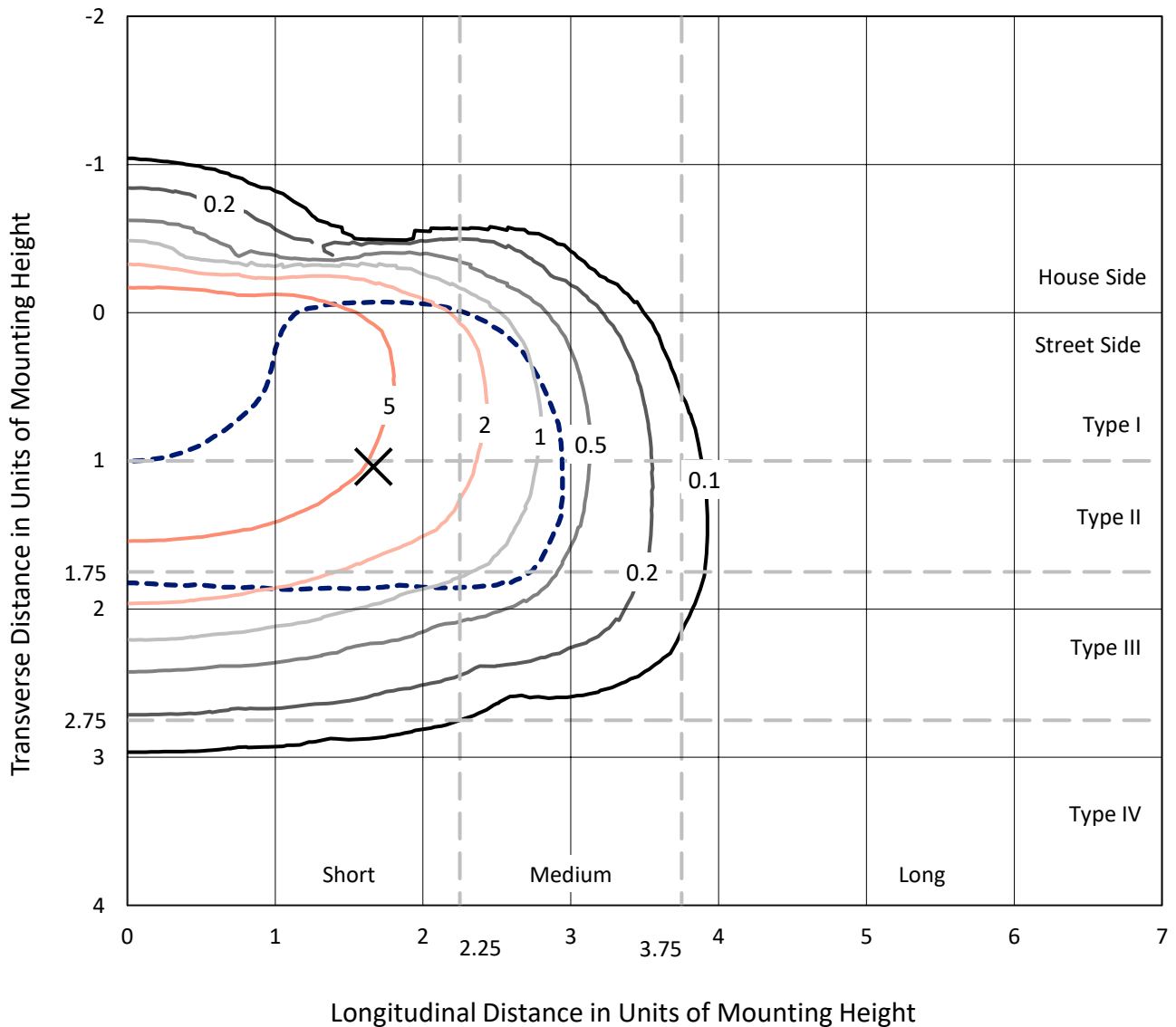
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

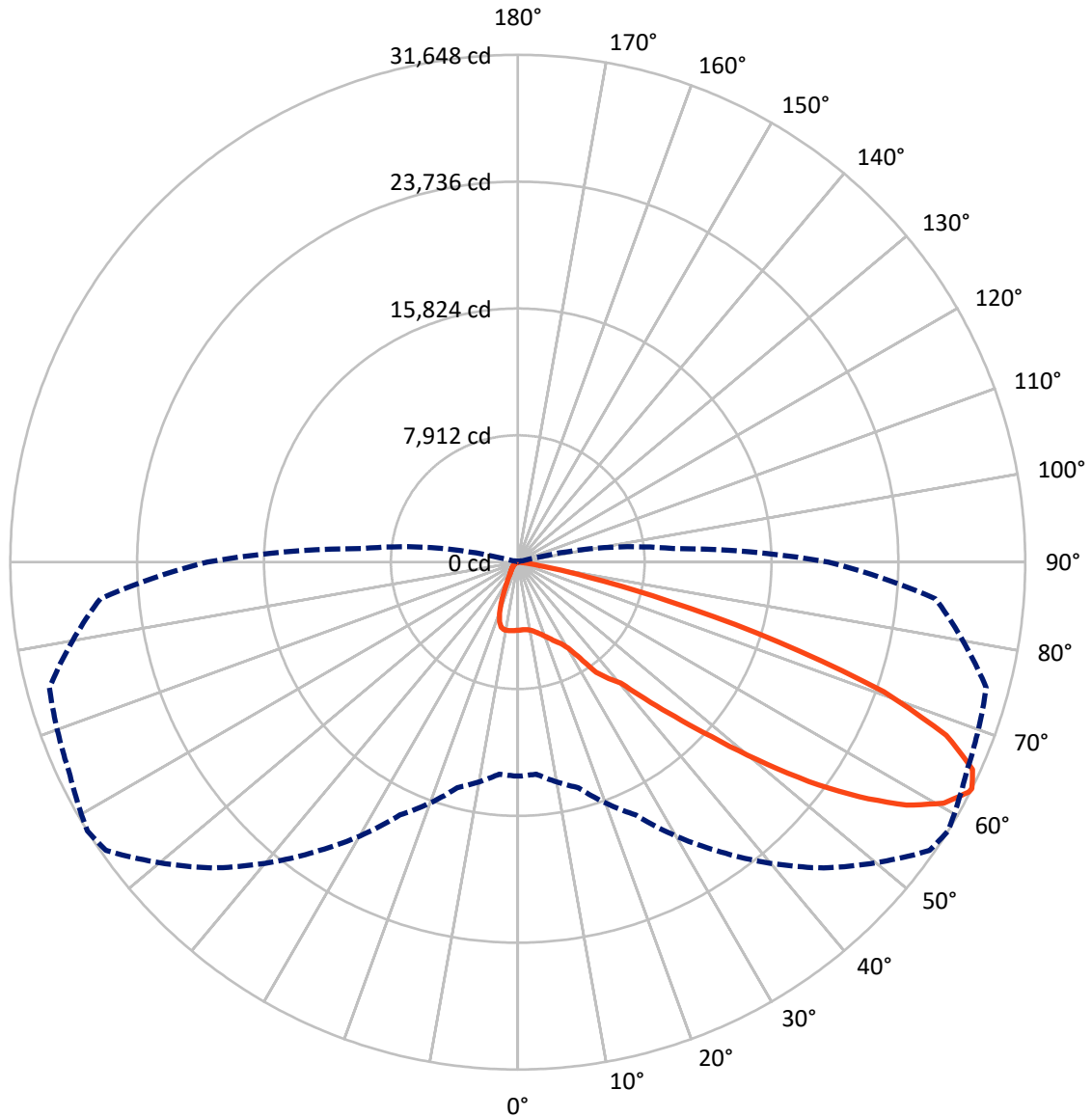
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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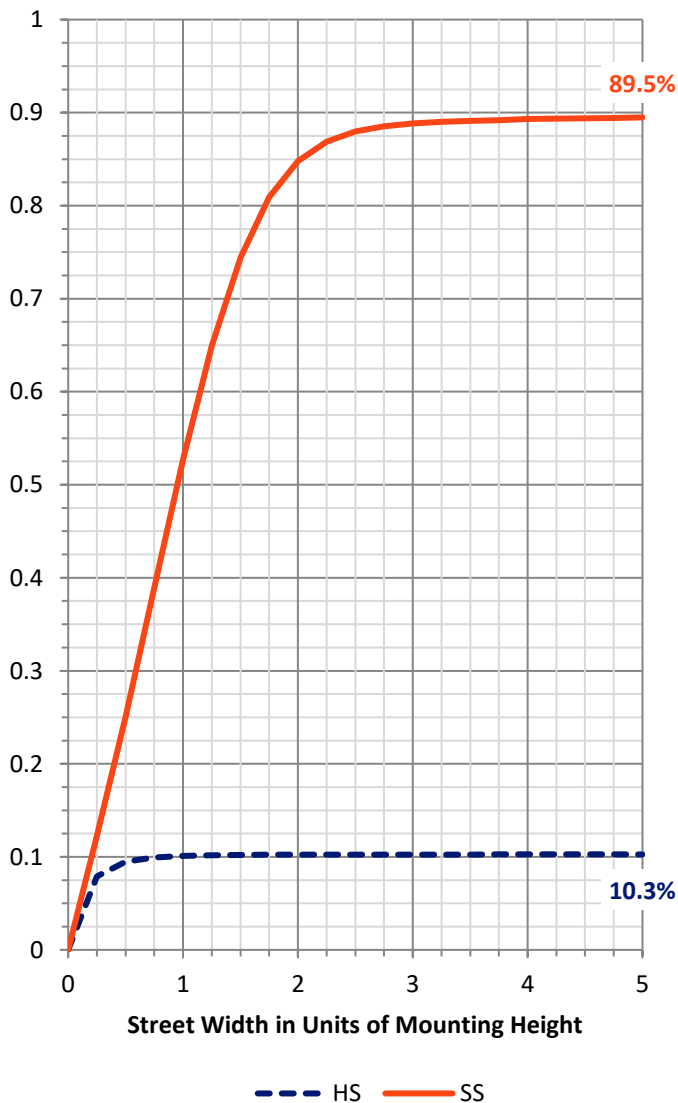
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3930.4	0.0	3930.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34028.6	0.0	34028.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	37959.0	0.0	37959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.8	1.0
10°-20°	1083.5	2.9
20°-30°	1880.5	5.0
30°-40°	3455.7	9.1
40°-50°	6505.2	17.1
50°-60°	11126.7	29.3
60°-70°	10653.8	28.1
70°-80°	2716.8	7.2
80°-90°	138.9	0.4
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°	37959.0	100.0
0°-180°	37959.0	100.0

Coefficient of Utilization



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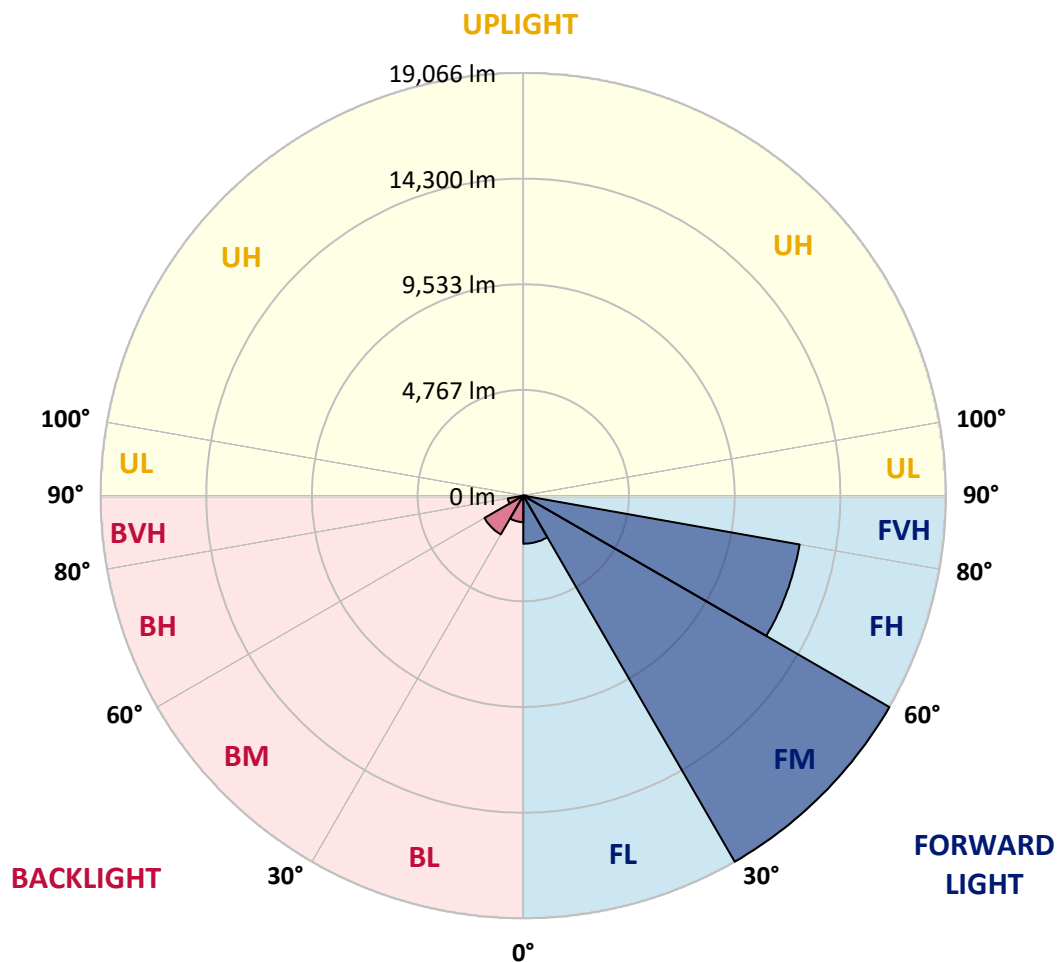
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2169.9	5.7			
FM (30°-60°)	19066.0	50.2			
FH (60°-80°)	12659.1	33.3			G5
FVH (80°-90°)	133.5	0.4			G2/225
BL (0°-30°)	1192.0	3.1	B3/2500		
BM (30°-60°)	2021.6	5.3	B2/2500		
BH (60°-80°)	711.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7
2.5°	4143.9	4158.2	4172.5	4178.2	4198.2	4218.2	4232.5	4229.7	4252.5	4263.9	4263.9
5°	3978.2	3978.2	4015.3	4049.6	4106.8	4163.9	4218.2	4229.7	4272.5	4312.5	4326.8
7.5°	3838.1	3846.7	3875.3	3938.1	4015.3	4115.3	4223.9	4249.7	4324.0	4412.6	4449.7
10°	3772.4	3778.1	3815.3	3881.0	3978.2	4115.3	4266.8	4315.4	4429.7	4569.7	4621.2
12.5°	3758.1	3766.7	3803.8	3878.1	3989.6	4155.3	4361.1	4412.6	4578.3	4758.4	4835.5
15°	3783.8	3789.5	3826.7	3906.7	4029.6	4226.8	4486.9	4558.3	4755.5	4964.1	5064.2
17.5°	3875.3	3869.6	3895.3	3961.0	4098.2	4315.4	4638.3	4724.1	4955.6	5241.3	5307.1
20°	4263.9	4226.8	4203.9	4146.8	4201.1	4441.1	4821.2	4947.0	5232.8	5524.3	5570.0
22.5°	5101.3	5018.4	4855.5	4632.6	4461.1	4612.6	5041.3	5187.0	5555.7	5841.5	5841.5
25°	6167.3	6061.5	5898.6	5412.8	4992.7	4895.5	5289.9	5472.8	5907.2	6195.9	6101.6
27.5°	7501.9	7419.0	7101.8	6536.0	5892.9	5389.9	5578.6	5747.2	6218.7	6567.4	6370.2
30°	8587.9	8547.9	8287.8	7782.0	7073.2	6338.8	6115.8	6227.3	6633.1	7036.1	6833.2
32.5°	9505.3	9505.3	9239.5	8768.0	8104.9	7453.3	7027.5	7107.5	7496.2	7962.0	7584.8
35°	10514.1	10479.8	10265.5	9816.8	9073.7	8499.3	8325.0	8433.6	8785.1	9130.9	8202.1
37.5°	11574.4	11563.0	11340.0	10905.6	10299.8	9576.7	9168.1	9196.6	9376.7	9588.2	8925.1
40°	12726.1	12743.3	12451.8	12183.1	11611.5	10871.3	10088.3	9908.2	10076.9	10674.2	10259.8
42.5°	14086.5	14046.4	13920.7	13554.9	13094.8	12651.8	11711.6	11645.8	11794.4	12434.6	11985.9
45°	15666.9	15724.0	15506.8	15303.9	14995.3	14626.6	13840.7	13726.4	13889.3	14883.8	14246.5
47.5°	17250.1	17195.8	17335.9	17298.7	17464.5	17190.1	16495.6	16261.3	16652.8	17595.9	16658.5
50°	18456.1	18516.2	18807.7	19233.5	19945.1	20099.4	19433.5	19353.5	19527.8	20133.7	18816.2
52.5°	19239.2	19439.3	19896.5	20991.1	22274.3	23271.7	22765.8	22722.9	22651.5	22814.4	20879.6
55°	19750.8	19953.7	20551.0	22162.8	24371.9	25992.4	26018.1	25835.2	25363.6	25246.4	22808.7
57.5°	19436.4	19476.4	20328.0	22482.9	25535.1	27932.8	28773.1	28590.2	27718.5	27275.5	24512.0
60°	17470.2	17553.1	18739.1	21271.1	25029.3	28567.3	30599.2	30516.4	29561.8	29061.7	25838.0
62.5°	13986.4	14226.5	15446.8	18270.4	22677.2	27498.5	31339.4	31573.8	30830.7	30142.0	26255.3
63°	13346.3	13269.1	14558.0	17395.9	22054.2	26969.7	31350.9	31648.1	30887.9	30244.9	26141.0
65°	9879.7	10111.2	10948.5	13717.8	18353.3	24509.1	30645.0	31170.8	30676.4	29790.5	24874.9
67.5°	5547.1	5535.7	6461.7	8976.6	12846.1	19224.9	27709.9	28821.6	28718.8	26732.5	20619.6
70°	2715.0	2757.8	3137.9	4652.6	7450.5	13263.4	23025.9	24226.2	24263.3	20996.8	14257.9
72.5°	1228.9	1248.9	1520.4	2266.3	3829.5	7061.8	15866.9	17012.9	16801.4	13380.6	7873.4
75°	648.7	691.6	837.4	1140.3	1846.2	2912.2	8630.8	9739.6	9296.7	6113.0	2897.9
77.5°	480.1	494.4	568.7	725.9	988.8	1134.6	3723.8	4429.7	4149.6	2212.0	960.2
80°	351.5	362.9	423.0	514.4	623.0	577.3	1403.2	1609.0	1443.2	751.6	294.4
82.5°	214.3	217.2	308.7	383.0	391.5	322.9	463.0	497.3	520.1	423.0	160.0
85°	77.2	97.2	208.6	277.2	231.5	162.9	194.3	214.3	234.3	268.6	94.3
87.5°	8.6	11.4	100.0	134.3	65.7	60.0	71.4	80.0	85.7	100.0	45.7
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°	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7
2.5°	4275.4	4286.8	4278.2	4263.9	4261.1	4252.5	4235.4	4235.4	4235.4	4241.1	4235.4
5°	4338.3	4346.8	4326.8	4298.2	4266.8	4226.8	4183.9	4158.2	4155.3	4149.6	4135.3
7.5°	4458.3	4469.7	4424.0	4355.4	4269.7	4172.5	4081.0	3995.3	3955.3	3923.9	3923.9
10°	4632.6	4644.0	4552.6	4429.7	4258.2	4061.0	3843.8	3646.6	3492.3	3420.9	3403.7
12.5°	4841.2	4847.0	4695.5	4481.1	4198.2	3818.1	3355.1	2923.6	2623.5	2486.3	2472.1
15°	5069.9	5029.9	4829.8	4501.1	4026.7	3318.0	2517.8	1989.1	1677.6	1586.1	1620.4
17.5°	5301.4	5227.0	4932.7	4469.7	3640.9	2517.8	1691.9	1357.5	1260.3	1234.6	1234.6
20°	5518.6	5415.7	5007.0	4332.5	2972.2	1734.7	1254.6	1174.6	1157.4	1140.3	1143.1
22.5°	5735.8	5578.6	5072.7	4026.7	2214.9	1240.3	1123.1	1097.4	1074.6	1051.7	1048.8
25°	5947.2	5730.0	5098.4	3460.9	1509.0	1066.0	1026.0	991.7	946.0	920.2	914.5
27.5°	6167.3	5912.9	5081.3	2746.4	1100.3	954.5	914.5	865.9	811.6	765.9	765.9
30°	6590.3	6261.6	5021.3	1974.8	926.0	840.2	788.8	711.6	651.6	605.9	603.0
32.5°	7167.5	6716.0	4815.5	1388.9	823.1	740.2	663.0	577.3	514.4	480.1	480.1
35°	7682.0	7173.3	4429.7	1023.1	740.2	643.0	548.7	465.8	417.2	394.4	385.8
37.5°	8465.0	7842.0	3898.1	831.6	660.2	557.3	460.1	383.0	342.9	325.8	325.8
40°	9639.6	8659.4	3246.5	728.8	583.0	474.4	383.0	322.9	291.5	271.5	271.5
42.5°	11097.1	9659.6	2586.4	654.5	511.6	408.7	320.1	274.4	245.8	231.5	228.6
45°	12931.9	10714.2	1991.9	585.9	454.4	348.7	271.5	231.5	202.9	194.3	197.2
47.5°	14846.6	11643.0	1543.3	525.8	394.4	294.4	231.5	200.1	180.0	168.6	168.6
50°	16481.4	12283.1	1171.7	457.3	348.7	248.6	202.9	180.0	162.9	157.2	154.3
52.5°	17847.4	12468.9	897.4	397.2	305.8	214.3	180.0	162.9	148.6	140.0	140.0
55°	19010.6	12306.0	703.0	334.4	257.2	185.8	160.0	145.8	128.6	120.0	117.2
57.5°	19690.7	11783.0	537.3	277.2	208.6	154.3	140.0	122.9	102.9	88.6	88.6
60°	20033.7	11022.8	411.5	228.6	160.0	122.9	114.3	91.5	71.4	60.0	57.2
62.5°	19622.2	10014.0	311.5	180.0	120.0	91.5	77.2	65.7	45.7	34.3	34.3
63°	19367.8	9722.5	300.1	171.5	111.5	85.7	71.4	60.0	40.0	31.4	28.6
65°	17655.9	8450.7	245.8	137.2	88.6	60.0	48.6	42.9	28.6	14.3	11.4
67.5°	14020.7	6464.5	194.3	102.9	62.9	42.9	28.6	25.7	8.6	0.0	0.0
70°	9479.6	4175.4	151.5	74.3	42.9	25.7	14.3	11.4	2.9	0.0	0.0
72.5°	4944.1	2140.5	117.2	54.3	25.7	17.1	8.6	2.9	0.0	0.0	0.0
75°	1749.0	728.8	85.7	34.3	17.1	8.6	2.9	0.0	0.0	0.0	0.0
77.5°	528.7	271.5	54.3	25.7	11.4	5.7	0.0	0.0	0.0	0.0	0.0
80°	185.8	100.0	31.4	17.1	8.6	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	91.5	48.6	20.0	14.3	8.6	2.9	0.0	0.0	0.0	0.0	0.0
85°	51.4	31.4	17.1	14.3	8.6	5.7	0.0	0.0	0.0	0.0	0.0
87.5°	37.2	22.9	17.1	14.3	11.4	5.7	2.9	0.0	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)