

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: P651539

Luminaire Tested: **GALN-SA7D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32630.8 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

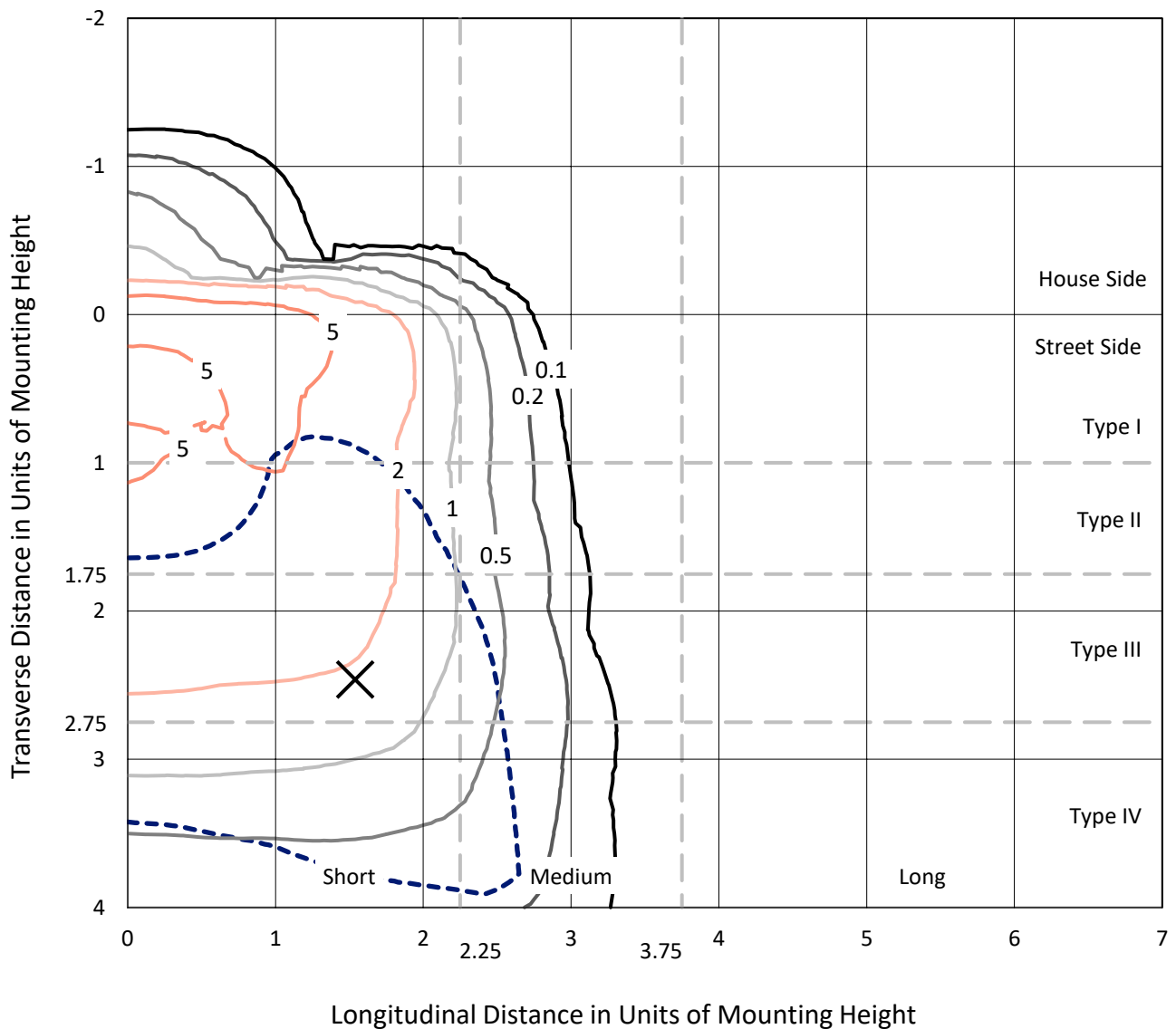
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

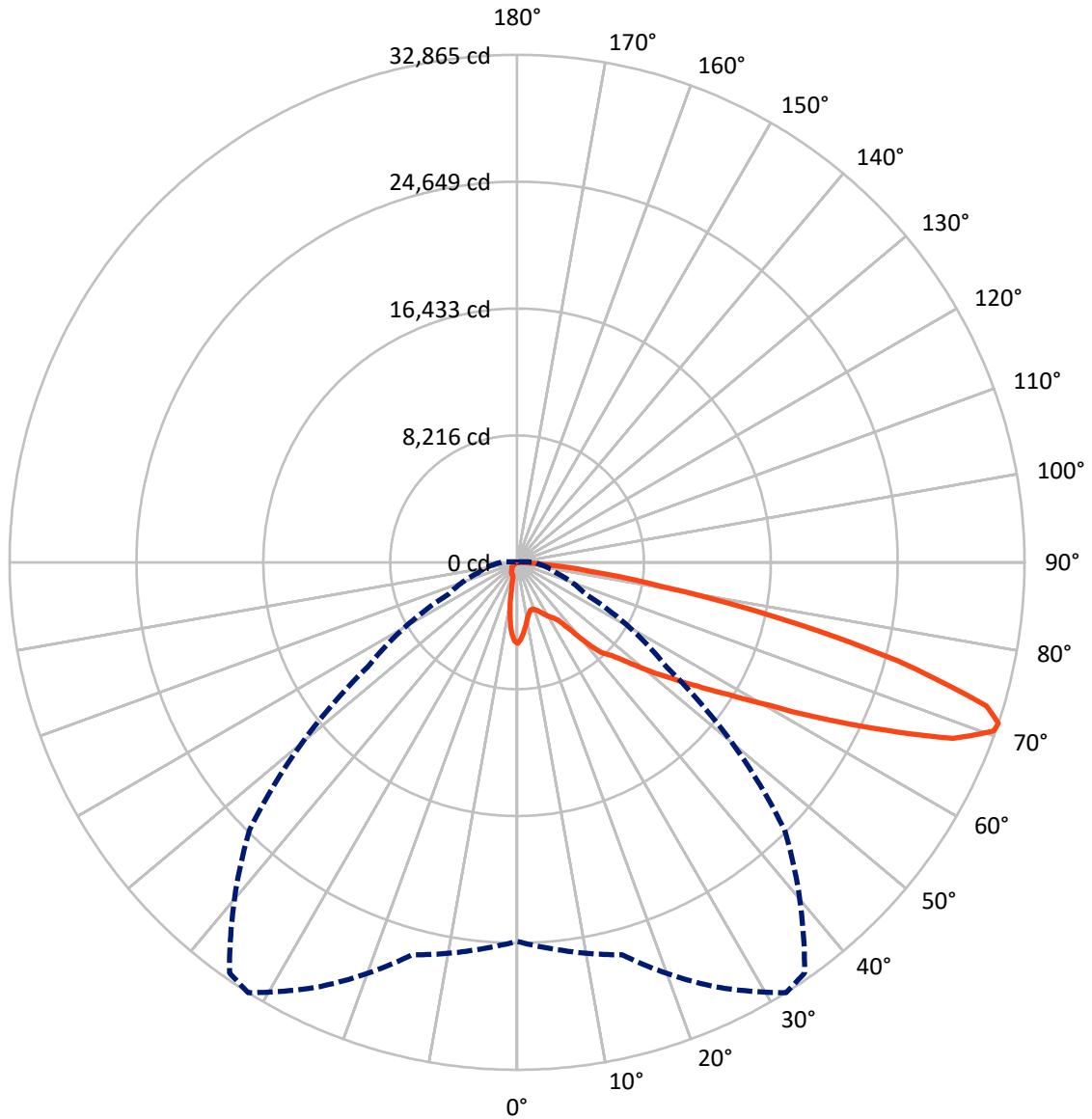
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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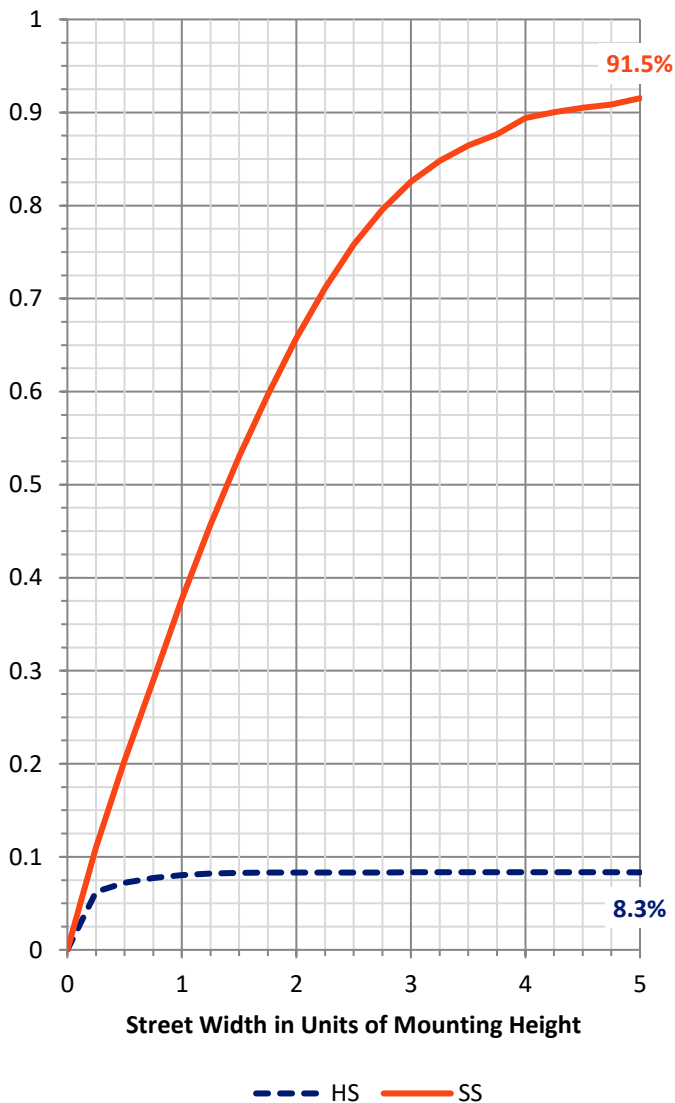
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.2	0.0	2733.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	29897.6	0.0	29897.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	32630.8	0.0	32630.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	1.3
10°-20°	926.1	2.8
20°-30°	1440.7	4.4
30°-40°	2400.2	7.4
40°-50°	4464.7	13.7
50°-60°	7168.2	22.0
60°-70°	9641.6	29.5
70°-80°	5720.5	17.5
80°-90°	442.2	1.4
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°	32630.8	100.0
0°-180°	32630.8	100.0

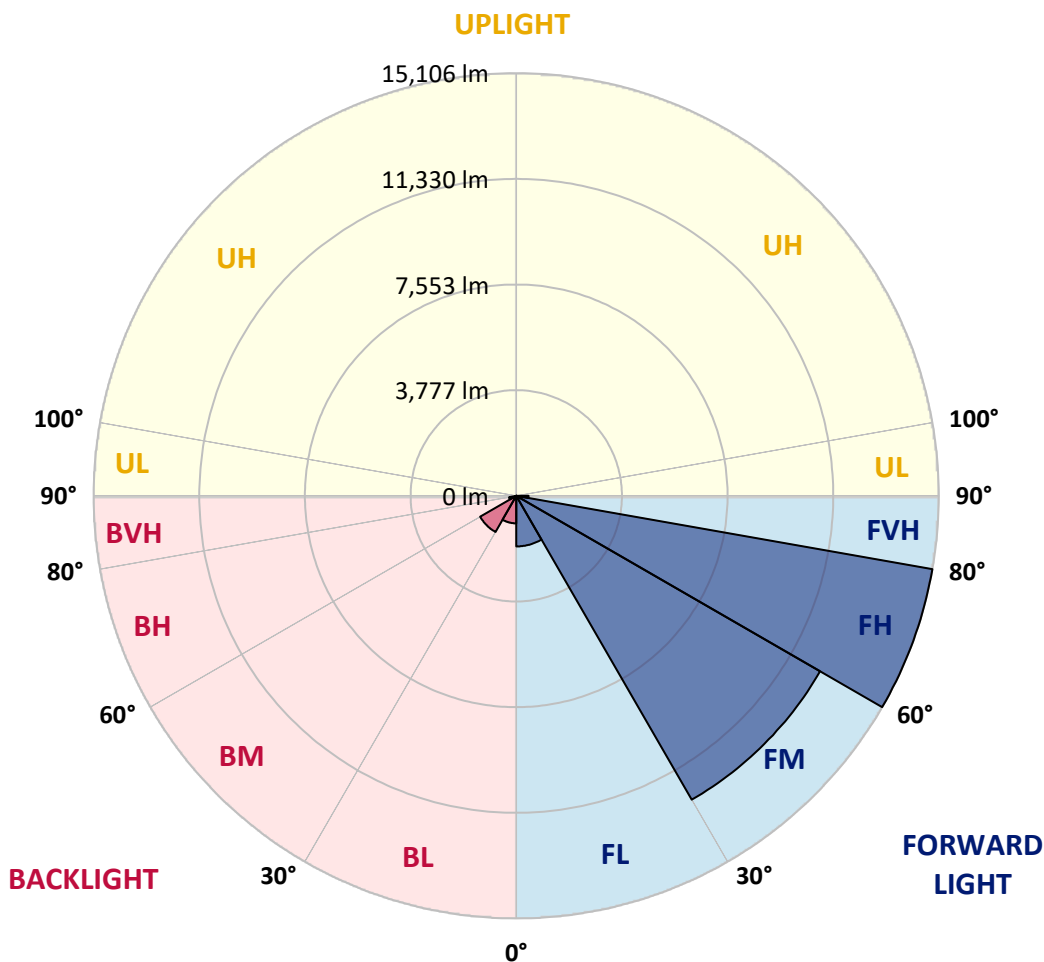


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.6	5.5			
FM (30°-60°)	12542.1	38.4			
FH (60°-80°)	15106.5	46.3			G5
FVH (80°-90°)	440.5	1.3			G3/500
BL (0°-30°)	984.8	3.0	B2/1000		
BM (30°-60°)	1491.0	4.6	B2/2500		
BH (60°-80°)	255.6	0.8	B1/500		G1/500
BVH (80°-90°)	1.7	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5
2.5°	4866.8	4916.9	4909.4	4926.9	4969.5	4987.0	5034.6	5087.2	5159.9	5210.0	5242.5
5°	4358.3	4395.9	4401.0	4488.6	4531.1	4578.7	4719.0	4871.8	5042.1	5177.4	5267.6
7.5°	3814.8	3834.9	3874.9	3990.1	4097.9	4145.5	4358.3	4623.8	4891.8	5144.8	5307.6
10°	3366.4	3389.0	3461.6	3584.3	3684.6	3747.2	4042.8	4375.9	4751.6	5127.3	5365.2
12.5°	3110.9	3123.5	3151.1	3261.2	3389.0	3456.6	3774.7	4155.5	4638.9	5134.8	5463.0
15°	3093.5	3088.4	3055.9	3100.9	3216.2	3286.3	3596.9	4005.2	4538.7	5159.9	5578.2
17.5°	3186.1	3173.6	3095.9	3095.9	3191.1	3248.7	3521.8	3925.0	4488.6	5217.5	5741.0
20°	3328.8	3308.8	3181.1	3171.1	3263.8	3323.9	3566.8	3930.0	4498.6	5325.2	5958.9
22.5°	3509.2	3486.7	3293.8	3298.8	3399.0	3459.1	3697.0	4020.2	4561.2	5457.9	6191.9
25°	3744.6	3719.7	3491.7	3481.7	3586.9	3639.4	3890.0	4180.5	4648.9	5623.3	6497.4
27.5°	4057.7	4005.2	3732.1	3717.1	3829.8	3897.4	4122.9	4395.9	4804.2	5851.2	6908.2
30°	4315.8	4258.2	3997.6	3957.6	4077.8	4130.4	4363.4	4686.5	5109.7	6249.5	7476.8
32.5°	4653.9	4568.7	4263.2	4158.0	4285.7	4353.4	4711.5	5227.5	5563.1	6670.2	8153.1
35°	5415.4	5362.8	4989.6	4621.4	4613.8	4699.0	5225.0	5773.5	6029.0	7326.5	9074.9
37.5°	6505.0	6467.4	6071.6	5578.2	5435.4	5395.4	5848.7	6374.7	6773.0	8228.3	10146.9
40°	7769.8	7682.2	7319.0	6900.7	6715.4	6597.6	6585.1	7268.9	7744.9	9453.1	11264.0
42.5°	8676.6	8516.3	8075.5	8045.4	8005.3	7882.6	7526.9	8576.4	8999.7	10770.6	12458.8
45°	9628.4	9385.5	8729.2	8616.5	8601.5	8593.9	8949.6	10124.4	10367.3	12198.4	13686.2
47.5°	10367.3	10174.5	9635.9	9585.9	9648.5	9818.8	10830.7	11767.5	11717.4	13470.8	14715.6
50°	11351.7	11206.4	10607.8	10703.0	11026.1	11304.1	12952.3	13558.4	12827.0	14472.7	15464.6
52.5°	12513.9	12246.0	11689.9	11947.8	12443.8	12907.2	15204.1	15126.5	13606.0	15226.6	16023.2
55°	13520.8	13330.5	13140.1	13408.1	14149.6	14728.2	17238.0	16301.2	14172.1	15832.8	16268.6
57.5°	15224.1	15179.0	14983.7	15256.7	16155.9	16757.1	19059.0	17212.9	14535.3	16148.4	15980.6
60°	17743.9	17671.3	17308.1	17656.3	18828.6	19772.8	20737.2	18032.0	14618.0	16025.7	15151.5
62.5°	20774.7	20526.8	20216.2	20729.6	22337.7	22753.5	22317.7	18518.0	14309.9	15048.8	13152.7
65°	23605.2	23349.7	23357.2	24439.3	26190.1	26473.2	24161.3	18445.3	13408.1	12601.6	9701.1
67.5°	25771.9	25729.2	26034.8	28146.3	30435.7	30240.3	25809.4	17358.2	10735.5	8168.1	5154.8
70°	25882.0	25964.7	26841.4	30405.7	32730.1	32419.5	25669.1	14109.5	6692.8	3757.2	2031.4
71°	24549.5	25105.5	26317.8	30335.5	32865.4	32462.1	24486.9	11817.6	4909.4	2620.1	1465.3
72.5°	20920.0	21213.1	23833.1	28549.6	31795.9	30934.2	21488.6	8283.3	3143.5	1603.0	841.6
75°	11522.0	12243.4	15960.6	22397.8	25431.2	24674.7	14004.3	3935.0	1568.0	876.7	348.2
77.5°	5485.5	5345.2	7787.4	13320.5	17243.0	17202.9	7056.0	1748.4	914.3	593.7	175.3
80°	1568.0	1763.4	2980.7	6332.1	9573.4	9678.5	2710.2	844.1	633.7	463.4	90.2
82.5°	473.4	483.4	1094.6	2800.4	4761.6	4488.6	1016.9	430.8	455.9	368.2	52.6
85°	82.7	102.7	323.1	986.9	1816.0	1377.6	255.5	205.4	300.6	243.0	30.0
87.5°	5.0	7.5	107.7	112.7	160.3	92.7	45.1	30.0	65.1	65.1	17.5
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°	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5	5247.5
2.5°	5265.1	5280.1	5270.1	5247.5	5210.0	5164.9	5104.8	5054.7	5012.1	4989.6	5017.1
5°	5297.6	5317.6	5267.6	5154.8	4984.5	4799.2	4588.7	4425.9	4298.3	4258.2	4243.1
7.5°	5347.8	5360.3	5225.0	4974.5	4613.8	4175.5	3792.2	3469.1	3218.7	3143.5	3033.3
10°	5412.8	5405.4	5149.9	4683.9	4050.3	3391.5	2797.8	2357.0	2023.9	1903.6	1893.6
12.5°	5513.1	5473.0	5054.7	4288.2	3379.0	2517.3	1783.4	1395.1	1184.8	1114.7	1099.6
15°	5638.3	5543.1	4904.4	3824.8	2587.4	1625.7	1099.6	981.9	954.4	949.3	944.3
17.5°	5786.1	5635.8	4706.5	3256.3	1818.5	1054.5	919.3	916.8	919.3	914.3	911.7
20°	5986.5	5733.4	4471.1	2582.5	1202.3	889.2	876.7	876.7	879.2	876.7	876.7
22.5°	6199.3	5848.7	4180.5	1971.3	906.8	844.1	841.6	846.6	851.6	849.2	849.2
25°	6462.3	5999.0	3797.3	1350.1	811.6	806.5	809.0	819.0	829.1	831.6	829.1
27.5°	6843.1	6184.3	3386.5	929.3	743.9	748.9	774.0	799.0	814.1	816.5	816.5
30°	7271.5	6389.7	2850.5	754.0	688.8	688.8	718.9	766.5	799.0	804.1	806.5
32.5°	7822.5	6627.7	2256.8	678.8	636.2	631.2	658.8	716.4	776.5	794.0	794.0
35°	8503.8	6908.2	1678.2	631.2	598.6	586.1	601.1	648.7	726.4	776.5	781.5
37.5°	9302.8	7173.7	1227.4	588.6	563.6	546.1	556.1	593.7	656.2	731.4	751.4
40°	10041.7	7409.2	916.8	553.5	528.5	516.0	523.5	541.0	593.7	663.8	676.3
42.5°	10848.2	7592.0	728.9	516.0	493.4	488.5	488.5	495.9	531.0	571.1	573.6
45°	11652.3	7657.1	611.2	470.9	455.9	460.9	458.3	453.4	468.4	463.4	463.4
47.5°	12225.9	7579.5	505.9	428.3	428.3	435.8	423.3	405.8	398.3	368.2	370.7
50°	12619.1	7296.4	415.8	378.2	398.3	408.3	383.2	355.7	328.2	295.5	288.0
52.5°	12781.9	6793.0	340.7	313.1	353.1	365.7	335.6	303.1	260.5	233.0	225.5
55°	12676.7	6171.8	283.1	255.5	298.1	313.1	283.1	245.5	197.9	167.8	162.8
57.5°	12213.3	5430.4	240.4	202.8	237.9	248.0	227.9	187.9	140.3	110.2	110.2
60°	11411.9	4663.9	195.4	160.3	177.9	192.8	172.8	135.2	95.2	67.6	62.7
62.5°	9786.2	3787.3	157.8	125.2	125.2	137.8	120.3	97.7	60.1	35.1	32.5
65°	7066.0	2597.5	125.2	92.7	90.2	90.2	75.2	65.1	35.1	15.1	10.0
67.5°	3839.8	1465.3	100.2	70.1	62.7	60.1	47.6	37.6	15.1	2.5	0.0
70°	1510.4	563.6	77.6	47.6	40.1	37.6	25.1	17.5	10.0	0.0	0.0
71°	1024.4	388.2	67.6	40.1	32.5	27.6	20.0	15.1	7.5	0.0	0.0
72.5°	586.1	240.4	52.6	30.0	25.1	20.0	15.1	10.0	7.5	0.0	0.0
75°	255.5	122.7	32.5	22.5	17.5	12.5	10.0	7.5	2.5	0.0	0.0
77.5°	130.3	67.6	22.5	17.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0
80°	72.7	35.1	15.1	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0
82.5°	40.1	20.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.1	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	5.0	0.0	0.0	0.0	0.0	2.5	2.5	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)