

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: P651426

Luminaire Tested: **GALN-SA5D-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25509.2 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

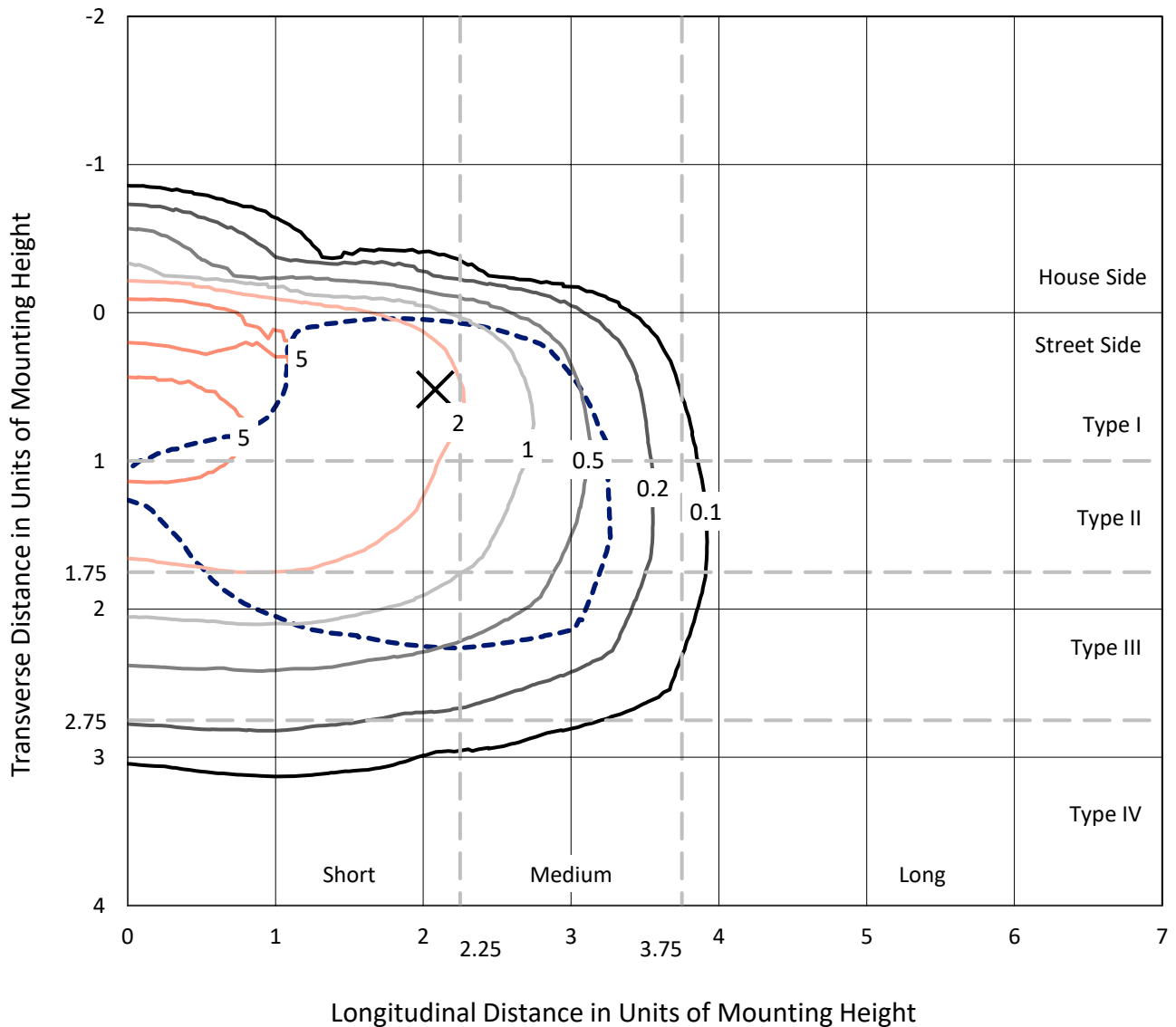
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

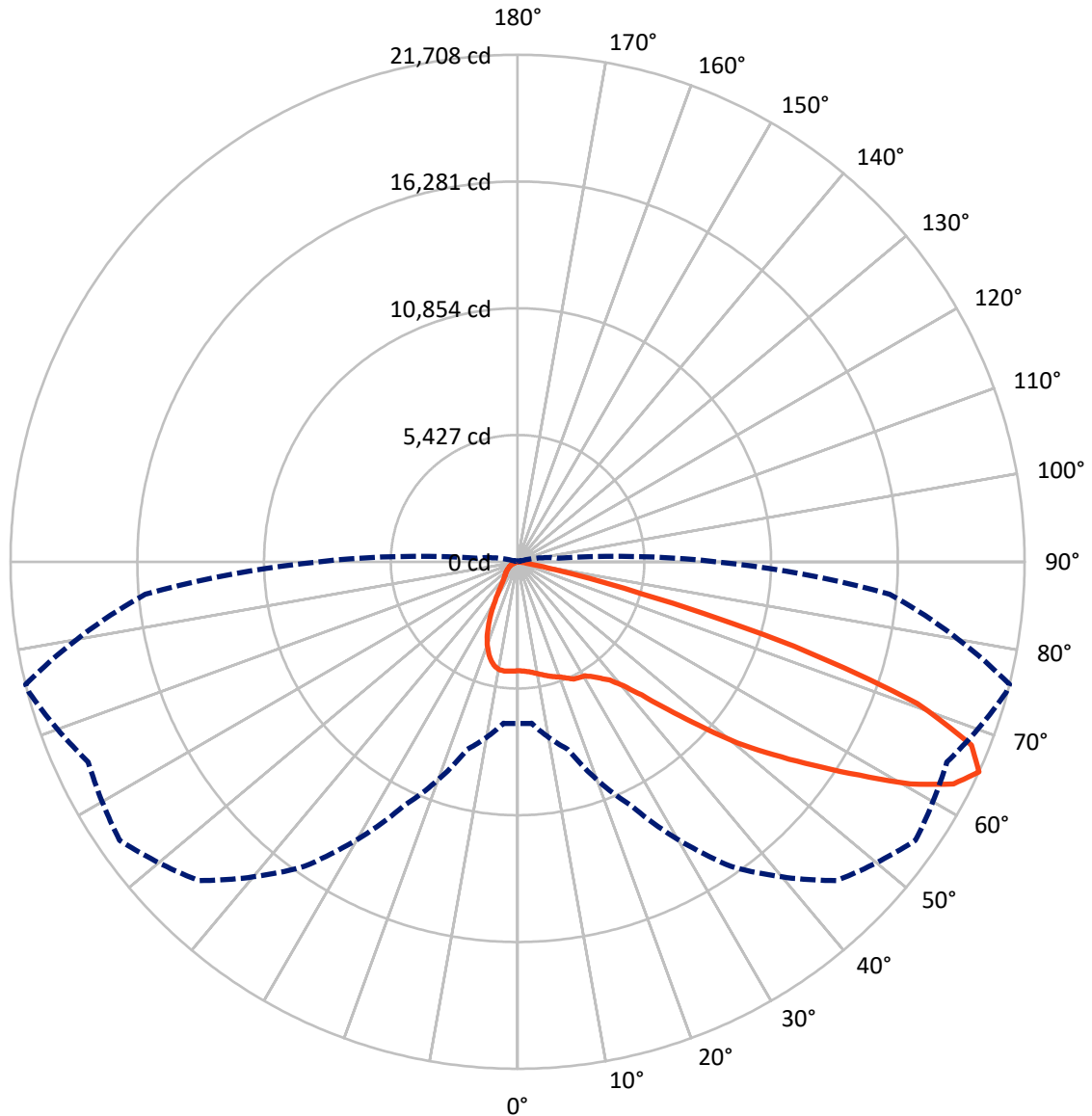
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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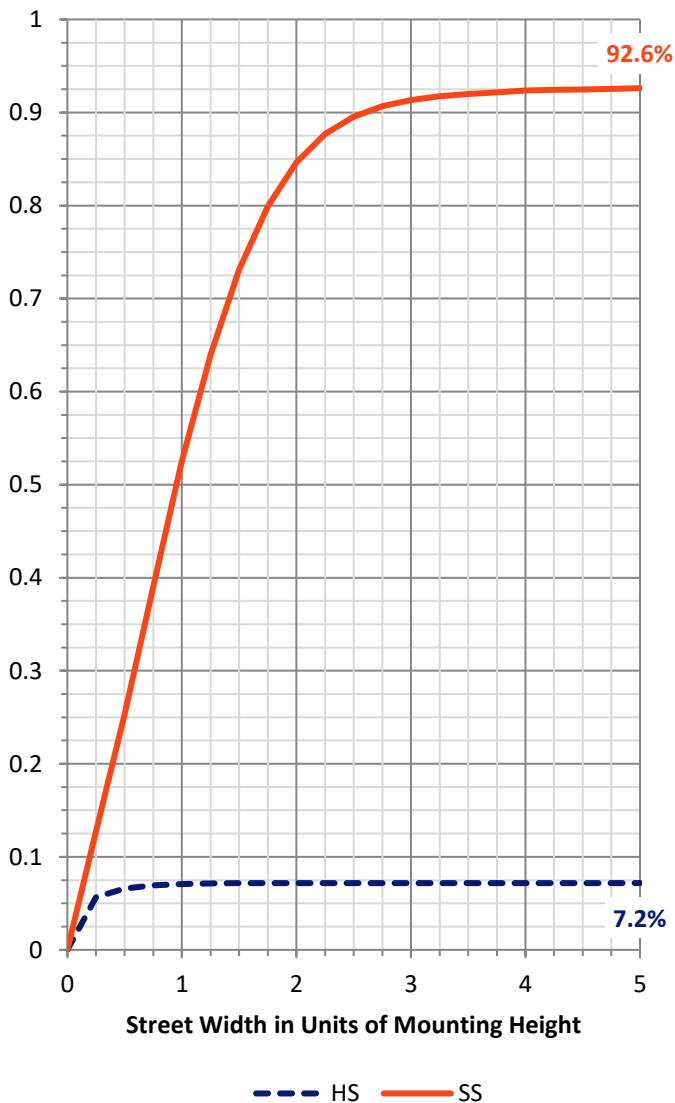
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.3	0.0	1842.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23667.0	0.0	23667.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	25509.2	0.0	25509.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	1.5
10°-20°	855.9	3.4
20°-30°	1379.2	5.4
30°-40°	2398.1	9.4
40°-50°	3962.8	15.5
50°-60°	6121.6	24.0
60°-70°	7475.4	29.3
70°-80°	2837.1	11.1
80°-90°	94.7	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°	25509.2	100.0
0°-180°	25509.2	100.0

Coefficient of Utilization



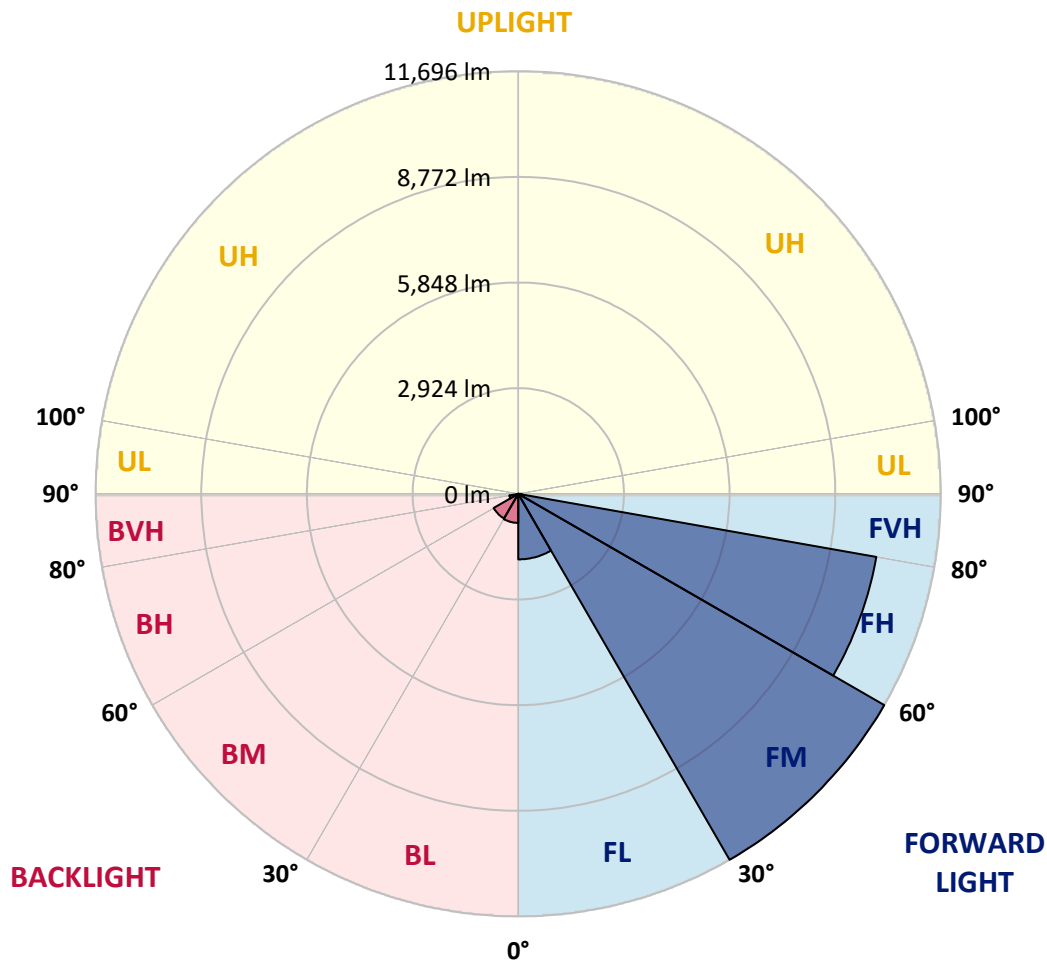
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.7	7.1			
FM (30°-60°)	11696.4	45.9			
FH (60°-80°)	10062.5	39.4			G4/12000
FVH (80°-90°)	93.4	0.4			G1/100
BL (0°-30°)	804.9	3.2	B2/1000		
BM (30°-60°)	786.2	3.1	B1/1000		
BH (60°-80°)	250.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5
2.5°	4459.3	4461.2	4471.9	4498.9	4540.4	4574.6	4603.4	4650.2	4682.7	4686.2	4697.1
5°	4151.3	4129.7	4151.3	4221.6	4284.6	4380.1	4497.2	4614.2	4718.7	4725.9	4776.3
7.5°	3805.5	3823.6	3857.8	3929.8	4048.7	4194.6	4363.9	4572.8	4770.9	4788.9	4888.0
10°	3454.3	3494.0	3549.8	3659.7	3825.4	4014.5	4245.0	4544.0	4853.7	4879.0	5050.0
12.5°	3130.2	3148.2	3216.7	3364.3	3569.6	3836.1	4155.0	4527.8	4945.6	4976.2	5222.9
15°	2881.6	2905.1	2964.4	3097.7	3326.5	3668.7	4081.1	4522.4	5035.7	5078.9	5395.9
17.5°	2834.8	2849.2	2874.5	2964.4	3164.4	3535.4	4014.5	4520.5	5122.1	5174.3	5556.2
20°	3027.5	3014.9	2989.7	2980.7	3090.6	3432.7	3965.8	4535.0	5204.9	5264.4	5725.4
22.5°	3510.2	3526.4	3378.7	3204.0	3168.0	3416.6	3958.7	4603.4	5336.4	5406.7	5914.6
25°	4535.0	4410.7	4180.2	3762.3	3447.2	3515.6	4039.7	4765.5	5489.5	5567.0	6085.6
27.5°	5667.8	5630.0	5271.6	4583.6	3996.4	3724.5	4183.8	4889.7	5539.9	5619.2	6182.9
30°	6780.8	6825.9	6415.2	5655.2	4794.3	4111.7	4318.9	4936.6	5585.0	5667.8	6307.2
32.5°	7812.8	7866.9	7506.7	6753.8	5734.4	4781.7	4551.2	5118.5	5774.1	5858.7	6514.3
35°	8625.1	8632.3	8360.4	7760.6	6761.1	5595.8	5053.7	5437.3	6029.8	6128.9	6734.1
37.5°	9370.8	9359.9	9041.2	8524.2	7616.5	6404.5	5685.8	5804.7	6321.6	6424.2	7051.0
40°	9923.6	9930.9	9828.2	9341.9	8414.4	7151.9	6186.5	6148.7	6811.4	6971.7	7512.1
42.5°	10292.8	10359.5	10409.9	10163.1	9417.5	8072.2	6955.6	6885.3	7661.5	7794.8	8164.0
45°	10591.8	10710.6	10962.9	10950.2	10381.1	9201.5	8010.9	7866.9	8866.4	9008.7	8994.3
47.5°	10809.7	10930.4	11348.2	11600.4	11287.0	10296.4	9338.3	9214.0	10305.4	10460.4	9911.0
50°	10921.4	11065.5	11598.6	12086.7	11994.8	11351.8	10851.2	10858.4	12043.5	12192.9	10973.6
52.5°	10660.3	10847.6	11731.9	12610.8	12789.1	12362.2	12268.6	12506.3	13590.5	13718.4	11933.5
55°	9826.4	10062.3	11550.0	13057.5	13709.4	13554.5	13878.7	14240.7	15281.6	15364.5	12918.8
57.5°	9298.7	9549.1	11013.2	13437.4	14815.2	15053.0	15566.2	15831.0	17026.9	17237.6	14049.7
60°	8853.8	9050.2	10572.0	13518.5	15939.1	16886.4	17385.2	17659.1	19180.9	19317.8	15294.3
62.5°	8113.6	8338.8	9826.4	12952.9	16504.5	18354.2	19388.0	19265.5	20846.8	20942.3	16057.9
65°	6923.1	6943.0	8313.5	11532.0	15921.1	19306.9	20794.6	20281.3	21642.9	21707.7	15998.5
67.5°	5167.1	5358.0	6395.5	9064.6	13448.3	18492.9	21250.3	20308.3	21140.4	20960.3	14728.8
70°	3328.3	3474.2	4335.1	6285.5	9696.7	15432.9	19739.2	18916.1	18554.1	18154.3	12056.1
72.5°	1536.3	1723.5	2575.5	3591.2	5750.7	10993.5	16023.7	15368.1	13354.6	12367.7	7663.4
75°	669.9	716.8	1271.5	1894.7	2696.2	5813.7	10564.8	9540.1	6031.7	5509.3	3067.1
77.5°	408.8	439.4	666.4	1015.8	1059.0	2215.3	5691.2	4162.2	1864.1	1644.3	832.1
80°	277.4	311.6	484.5	531.3	362.0	617.7	2136.0	1111.2	376.4	360.2	178.3
82.5°	135.1	171.1	358.4	297.2	156.7	198.1	621.3	237.8	109.8	102.7	63.1
85°	19.8	34.2	201.8	194.5	70.2	46.8	109.8	59.5	37.8	36.0	28.8
87.5°	0.0	0.0	68.5	30.6	7.2	7.2	12.6	12.6	14.4	12.6	14.4
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°	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5
2.5°	4702.5	4711.5	4677.2	4628.6	4576.4	4524.2	4450.3	4383.7	4344.1	4367.5	4309.9
5°	4787.1	4779.9	4689.8	4542.2	4345.9	4110.0	3875.8	3675.9	3611.1	3513.8	3503.0
7.5°	4904.2	4884.4	4693.5	4354.9	3911.8	3468.8	3036.5	2750.2	2586.2	2447.6	2451.2
10°	5068.1	5010.4	4652.1	4025.3	3295.9	2627.7	2076.6	1698.4	1534.5	1482.3	1440.8
12.5°	5237.4	5125.7	4536.8	3580.5	2566.5	1795.6	1262.5	1032.0	931.2	898.7	895.1
15°	5388.6	5212.2	4335.1	3045.5	1865.8	1147.3	860.8	785.2	772.6	774.5	772.6
17.5°	5538.2	5280.6	4055.9	2478.2	1267.9	823.1	740.2	722.3	727.6	734.8	733.0
20°	5662.5	5295.0	3699.3	1891.1	896.9	722.3	695.2	691.6	697.0	702.4	702.4
22.5°	5797.5	5305.8	3276.0	1309.4	733.0	671.8	657.4	657.4	664.6	671.8	673.6
25°	5898.4	5246.4	2770.0	940.2	646.6	623.2	615.9	617.7	624.9	628.6	626.8
27.5°	5914.6	5078.9	2233.3	720.4	587.1	563.7	556.5	563.7	554.7	560.1	556.5
30°	5929.0	4866.4	1689.4	606.9	533.1	497.1	486.3	475.5	468.3	459.3	457.4
32.5°	5974.0	4616.0	1233.7	545.7	482.6	443.0	417.8	387.2	363.8	356.6	354.8
35°	5993.8	4315.3	905.9	497.1	437.7	394.4	349.4	306.2	272.0	259.4	268.4
37.5°	6069.4	4023.5	702.4	461.0	398.0	344.0	286.4	232.4	199.9	192.7	196.3
40°	6224.3	3706.5	589.0	430.4	363.8	297.2	226.9	174.7	153.1	145.9	144.1
42.5°	6472.8	3391.3	524.1	401.7	329.6	250.4	178.3	136.9	118.8	113.5	113.5
45°	6775.4	3088.7	479.0	371.0	293.6	201.8	140.4	109.8	99.1	95.5	95.5
47.5°	7173.5	2824.0	441.3	340.4	254.0	160.3	113.5	95.5	88.2	90.1	91.8
50°	7576.9	2627.7	399.8	306.2	208.9	131.4	97.2	84.7	82.8	84.7	84.7
52.5°	7881.3	2512.4	344.0	259.4	163.9	109.8	86.5	79.2	77.5	73.8	73.8
55°	8291.9	2487.2	273.7	210.8	129.7	91.8	77.5	72.1	66.6	63.1	61.2
57.5°	8819.6	2516.0	210.8	163.9	100.8	75.6	68.5	59.5	52.2	45.0	45.0
60°	9147.4	2451.2	163.9	126.1	73.8	61.2	52.2	43.2	34.2	28.8	27.0
62.5°	9042.9	2177.4	129.7	93.7	52.2	45.0	34.2	28.8	19.8	14.4	12.6
65°	8504.4	1757.8	104.5	64.8	37.8	27.0	18.0	18.0	9.0	1.8	0.0
67.5°	7443.6	1302.1	82.8	43.2	21.6	12.6	9.0	5.4	0.0	0.0	0.0
70°	6058.6	940.2	64.8	27.0	12.6	9.0	3.6	1.8	0.0	0.0	0.0
72.5°	3847.0	538.5	50.5	16.2	9.0	3.6	0.0	0.0	0.0	0.0	0.0
75°	1487.6	210.8	34.2	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	421.4	99.1	19.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.8	43.2	10.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.2	18.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.6	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	1.8	0.0	0.0	0.0	0.0	0.0	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)