

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: P651596

Luminaire Tested: **GALN-SA8D-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38004 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

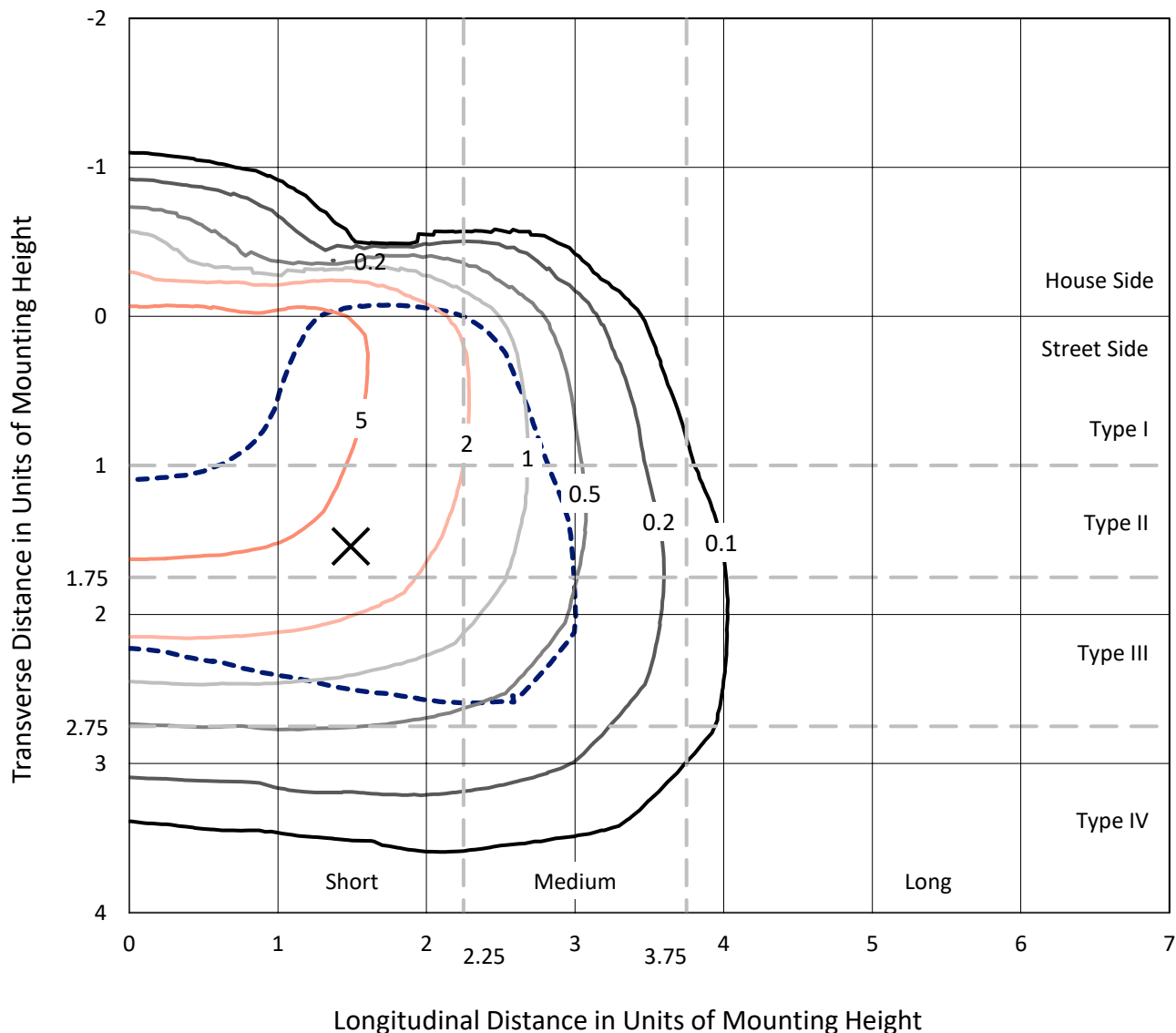
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651596
 CATALOG NUMBER: GALN-SA8D-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

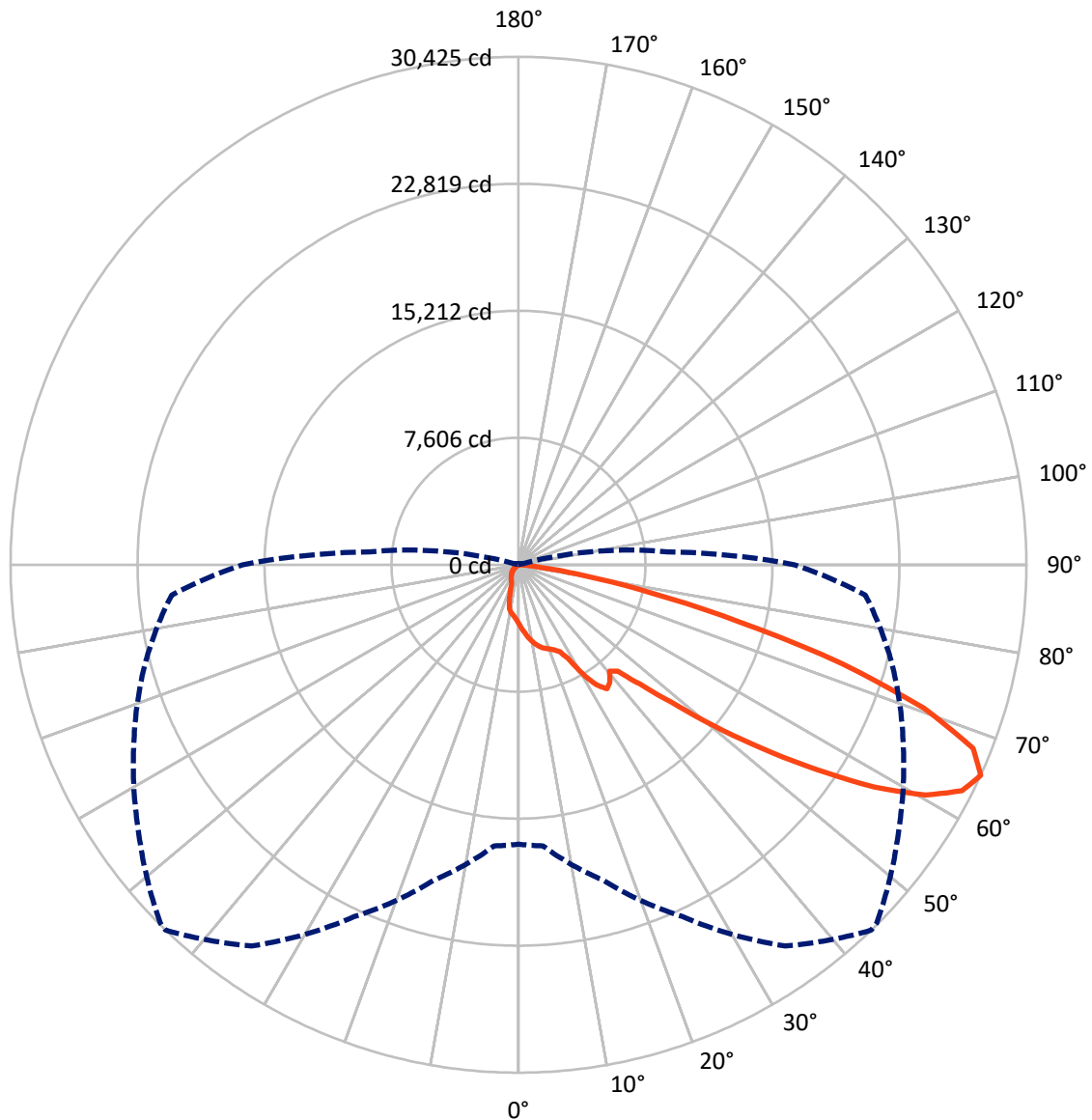
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P651596
CATALOG NUMBER: GALN-SA8D-840-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GALN-SA8D-840-U-T4W-HSS

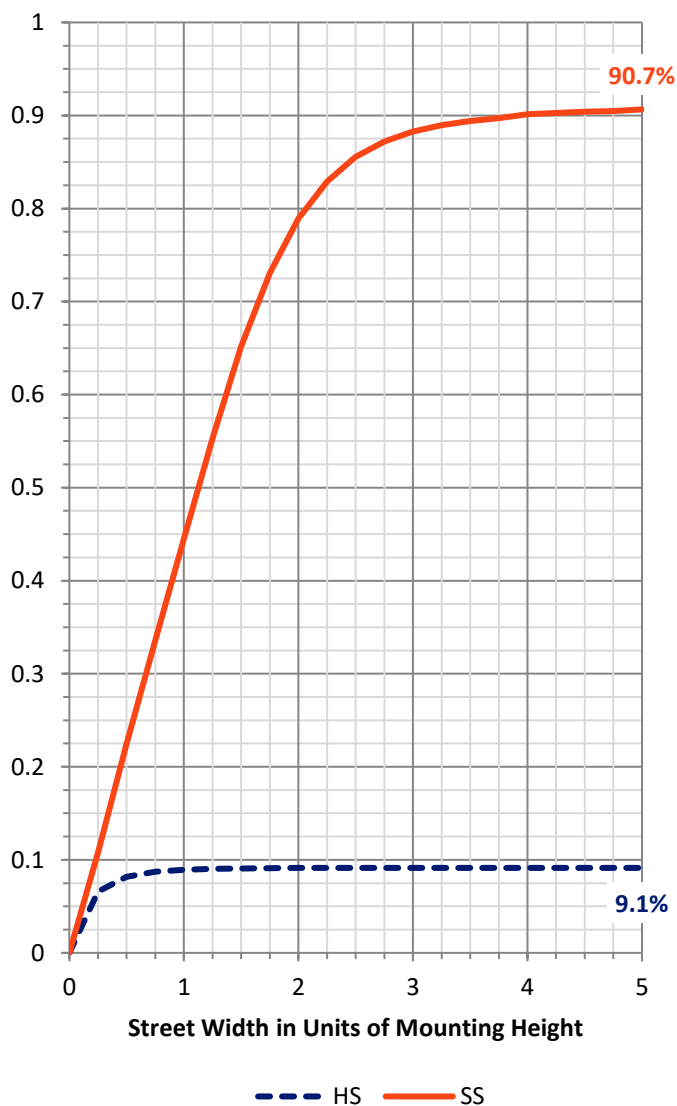
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.5	0.0	3501.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	34502.5	0.0	34502.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	38004.0	0.0	38004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	0.9
10°-20°	1058.8	2.8
20°-30°	1795.3	4.7
30°-40°	2985.0	7.9
40°-50°	5211.9	13.7
50°-60°	10182.2	26.8
60°-70°	11813.8	31.1
70°-80°	4302.0	11.3
80°-90°	303.1	0.8
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°	38004.0	100.0
0°-180°	38004.0	100.0

Coefficient of Utilization

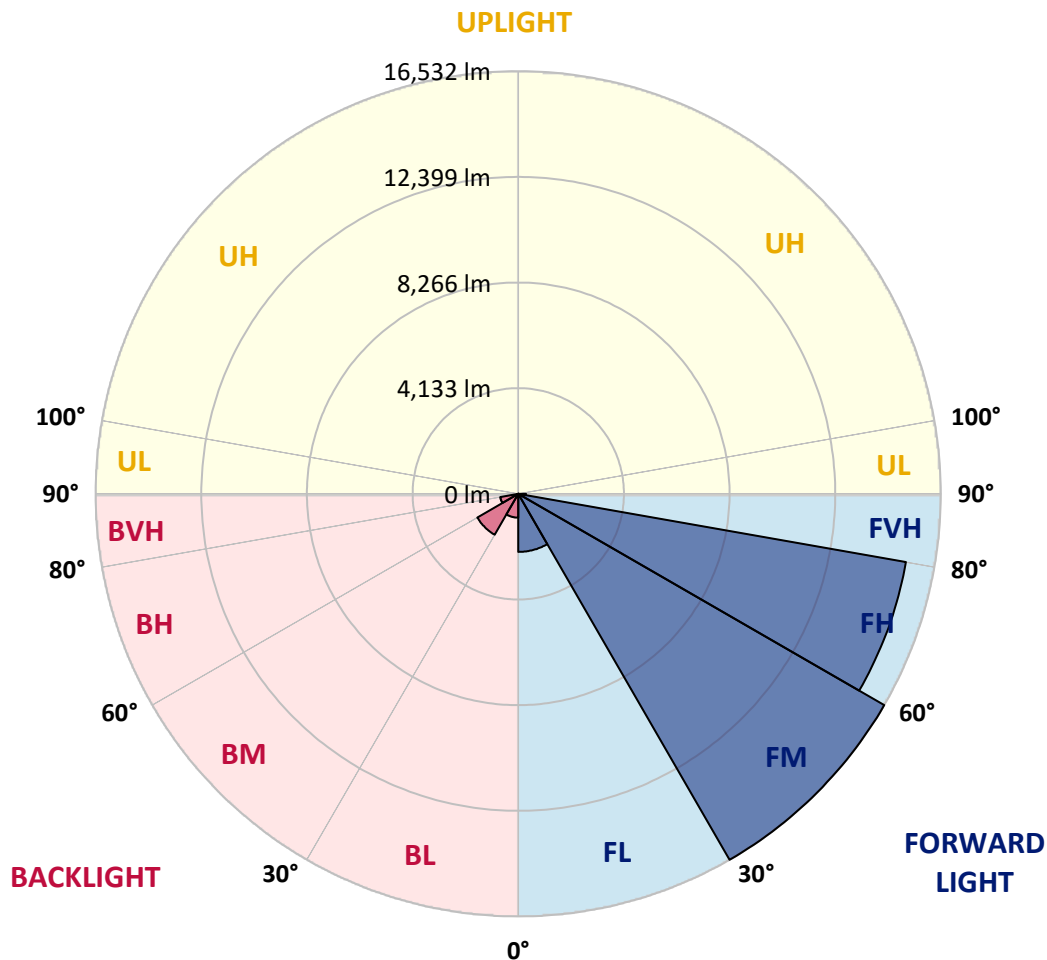


REPORT NUMBER: P651596
 CATALOG NUMBER: GALN-SA8D-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.0	6.0			
FM (30°-60°)	16531.8	43.5			
FH (60°-80°)	15398.7	40.5			G5
FVH (80°-90°)	299.0	0.8			G3/500
BL (0°-30°)	932.9	2.5	B2/1000		
BM (30°-60°)	1847.4	4.9	B2/2500		
BH (60°-80°)	717.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	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 III Short





REPORT NUMBER: P651596

CATALOG NUMBER: GALN-SA8D-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3981.4	3963.9	3955.2	3908.7	3873.9	3830.3	3830.3	3775.2	3711.2	3641.6	3577.7
5°	4425.7	4396.6	4358.8	4318.2	4236.9	4120.7	4120.7	4004.6	3871.0	3752.0	3621.3
7.5°	4852.6	4826.4	4762.5	4684.1	4550.5	4428.5	4419.9	4251.4	4091.7	3911.7	3725.8
10°	5227.2	5206.8	5151.6	5000.7	4861.2	4701.5	4698.6	4509.9	4324.0	4103.3	3873.9
12.5°	5488.5	5491.4	5418.8	5273.6	5093.6	4942.6	4931.0	4745.1	4550.5	4312.4	4030.7
15°	5674.4	5674.4	5598.9	5436.2	5273.6	5140.0	5128.4	4965.8	4765.4	4506.9	4202.1
17.5°	5726.6	5744.0	5662.7	5517.5	5386.9	5270.7	5267.8	5131.3	4971.6	4721.9	4376.3
20°	5706.3	5723.8	5659.8	5546.6	5456.6	5389.8	5381.1	5325.9	5177.8	4942.6	4562.2
22.5°	5662.7	5680.2	5633.7	5566.9	5523.4	5543.7	5529.2	5575.7	5497.2	5212.6	4782.9
25°	5671.5	5688.9	5654.0	5616.3	5654.0	5778.9	5816.6	6017.0	5947.3	5555.3	5020.9
27.5°	5944.4	5979.3	5929.9	5947.3	6080.9	6371.3	6443.9	6789.5	6481.7	5990.9	5392.7
30°	6551.4	6528.1	6435.2	6519.4	6984.1	7599.7	7579.3	7524.2	7042.1	6493.3	5834.1
32.5°	7103.1	7082.8	7076.9	7440.0	8282.1	8581.2	8566.7	8032.4	7544.5	7068.3	6269.7
35°	7326.7	7248.3	7230.9	8110.8	9519.2	9124.3	9034.3	8241.5	8154.3	7695.5	6714.0
37.5°	8000.4	7945.3	7675.2	8221.1	9025.5	8894.8	8825.2	8601.6	8804.8	8250.2	7216.4
40°	9388.5	9234.6	8990.7	8456.3	8325.6	8380.8	8450.5	9063.3	9574.4	9008.1	7887.2
42.5°	11113.5	11078.7	10625.6	9629.5	8650.9	8726.5	8816.5	10027.4	10680.8	10149.4	8982.0
45°	13184.0	13233.4	12580.0	11403.9	10120.3	10184.3	10314.9	11450.4	12179.3	11923.7	10704.0
47.5°	15065.8	15028.1	14807.3	13584.8	12400.0	12257.7	12469.7	13277.0	14252.7	14293.3	12841.3
50°	16959.2	17159.5	16831.4	16352.2	15472.4	15173.2	15094.9	15489.8	16976.6	16782.1	15408.5
52.5°	19680.2	19784.8	19169.1	19047.1	19247.5	18277.6	18199.2	18295.0	19625.0	18957.1	17330.9
55°	21390.7	21329.7	21100.3	22052.7	22845.5	21634.6	21535.8	21149.6	21823.4	20493.3	19180.7
57.5°	21930.8	22017.9	22552.3	24274.3	26150.2	25122.3	24942.2	23844.5	23408.9	21925.0	20882.5
60°	21689.7	21849.4	23002.4	25563.6	28165.6	28011.7	27857.8	26013.7	24547.3	23121.4	22076.0
62.5°	19973.5	20197.1	22041.1	25334.2	28848.1	29809.2	29617.6	27367.0	25305.2	23702.2	22285.1
65°	16738.5	16904.0	19552.4	23252.1	27878.1	30424.9	30355.2	27791.0	25424.3	23170.7	20853.4
67.5°	11932.4	12495.7	14949.6	19596.0	25009.0	29373.6	29492.7	27282.8	24306.2	20873.7	17269.9
70°	7501.0	7884.3	9644.1	14029.1	20049.0	25769.8	26161.8	24956.7	21094.5	16270.9	11560.7
72.5°	3577.7	3862.3	5116.8	8880.4	14151.0	20275.5	20586.3	20487.5	16311.6	10251.0	5964.8
75°	1594.3	1701.8	2442.3	4533.1	9135.9	13628.3	14432.7	14566.3	10192.9	5015.1	2320.2
77.5°	813.1	816.0	1144.2	2195.4	4562.2	8131.1	8290.8	8758.3	5526.3	2209.9	807.3
80°	432.7	461.7	606.9	1036.7	2366.7	4004.6	3984.2	4379.2	2450.9	1083.2	270.0
82.5°	194.6	214.9	342.7	543.0	1155.8	1518.8	1637.8	1791.8	1051.2	691.1	119.1
85°	58.1	69.7	168.5	273.0	418.1	438.5	490.8	633.1	595.3	490.8	61.0
87.5°	8.7	8.7	69.7	75.5	61.0	78.4	81.3	90.0	191.7	180.1	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651596

CATALOG NUMBER: GALN-SA8D-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3542.9	3522.5	3450.0	3388.9	3336.7	3304.7	3266.9	3243.7	3232.1	3223.4	3226.3
5°	3557.3	3508.0	3383.1	3284.4	3208.9	3127.6	3072.4	3040.5	3025.9	3002.7	3002.7
7.5°	3638.7	3560.3	3386.0	3235.0	3104.4	2994.0	2889.4	2851.7	2825.6	2819.8	2814.0
10°	3754.8	3656.1	3418.0	3208.9	3023.1	2872.0	2723.9	2593.2	2491.6	2430.7	2421.9
12.5°	3900.1	3757.8	3467.4	3191.4	2953.3	2686.2	2294.2	2029.8	1852.7	1797.6	1806.3
15°	4033.6	3879.7	3516.7	3177.0	2825.6	2227.3	1783.0	1481.0	1391.0	1382.3	1385.2
17.5°	4193.3	4010.4	3574.8	3156.6	2474.2	1701.8	1324.2	1242.9	1260.3	1289.3	1286.5
20°	4358.8	4149.7	3644.5	3034.7	1974.7	1280.7	1170.3	1179.0	1205.2	1231.3	1237.1
22.5°	4536.0	4309.5	3725.8	2741.3	1507.2	1115.2	1109.3	1121.0	1147.0	1176.1	1181.9
25°	4779.9	4509.9	3786.8	2358.0	1141.2	1030.9	1042.5	1062.9	1086.1	1118.0	1123.8
27.5°	5093.6	4779.9	3818.7	1858.5	987.3	955.4	958.3	987.3	1016.3	1045.4	1045.4
30°	5500.1	5102.3	3754.8	1405.5	911.8	882.8	871.2	888.6	926.4	955.4	958.3
32.5°	5863.1	5407.2	3586.4	1074.5	856.6	816.0	787.0	789.9	804.4	821.8	824.8
35°	6226.1	5703.4	3298.9	903.1	798.6	752.1	708.5	685.3	673.7	665.0	673.7
37.5°	6690.7	6072.2	2915.6	821.8	749.2	691.1	630.2	580.8	540.2	514.0	519.8
40°	7288.9	6583.3	2462.5	769.5	702.7	633.1	551.8	487.9	418.1	394.9	383.3
42.5°	8276.3	7358.7	1986.3	726.0	656.3	572.0	470.5	383.3	319.4	296.2	302.0
45°	9835.7	8337.3	1530.4	679.5	609.8	505.3	394.9	302.0	249.8	238.1	244.0
47.5°	11903.3	9603.5	1179.0	627.2	551.8	432.7	310.7	238.1	206.2	203.3	200.4
50°	13849.0	10782.5	984.5	569.2	482.1	360.1	255.6	200.4	180.1	177.1	177.1
52.5°	15608.8	11627.5	801.5	502.4	406.5	296.2	214.9	177.1	159.7	151.0	151.0
55°	17174.1	12179.3	650.5	421.1	319.4	235.2	185.9	159.7	139.4	127.7	124.9
57.5°	18356.0	12246.1	487.9	336.8	238.1	182.9	159.7	139.4	116.1	101.7	95.8
60°	18861.3	11668.1	360.1	255.6	177.1	145.2	127.7	113.3	87.1	72.6	69.7
62.5°	18353.1	10544.3	267.2	194.6	136.5	107.5	90.0	84.2	61.0	43.6	40.6
65°	16532.3	8921.0	212.0	148.1	101.7	78.4	58.1	55.2	37.8	20.4	17.4
67.5°	13245.0	6986.9	168.5	110.3	72.6	52.3	37.8	34.8	20.4	5.8	5.8
70°	8613.2	4466.3	136.5	81.3	46.4	34.8	23.2	17.4	11.6	2.9	0.0
72.5°	4260.1	2088.0	110.3	63.9	32.0	17.4	8.7	5.8	8.7	0.0	0.0
75°	1652.4	743.4	81.3	43.6	17.4	8.7	5.8	0.0	2.9	0.0	0.0
77.5°	548.8	246.8	49.4	23.2	11.6	5.8	0.0	0.0	0.0	0.0	0.0
80°	203.3	95.8	26.2	14.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	81.3	37.8	17.4	11.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.6	23.2	11.6	8.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.0	17.4	11.6	8.7	5.8	2.9	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)