

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: P459381

Luminaire Tested: **GALN-SA8B-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459381
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-SA8B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 30964 lumens
Efficiency: N/A
Efficacy: 95.3 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

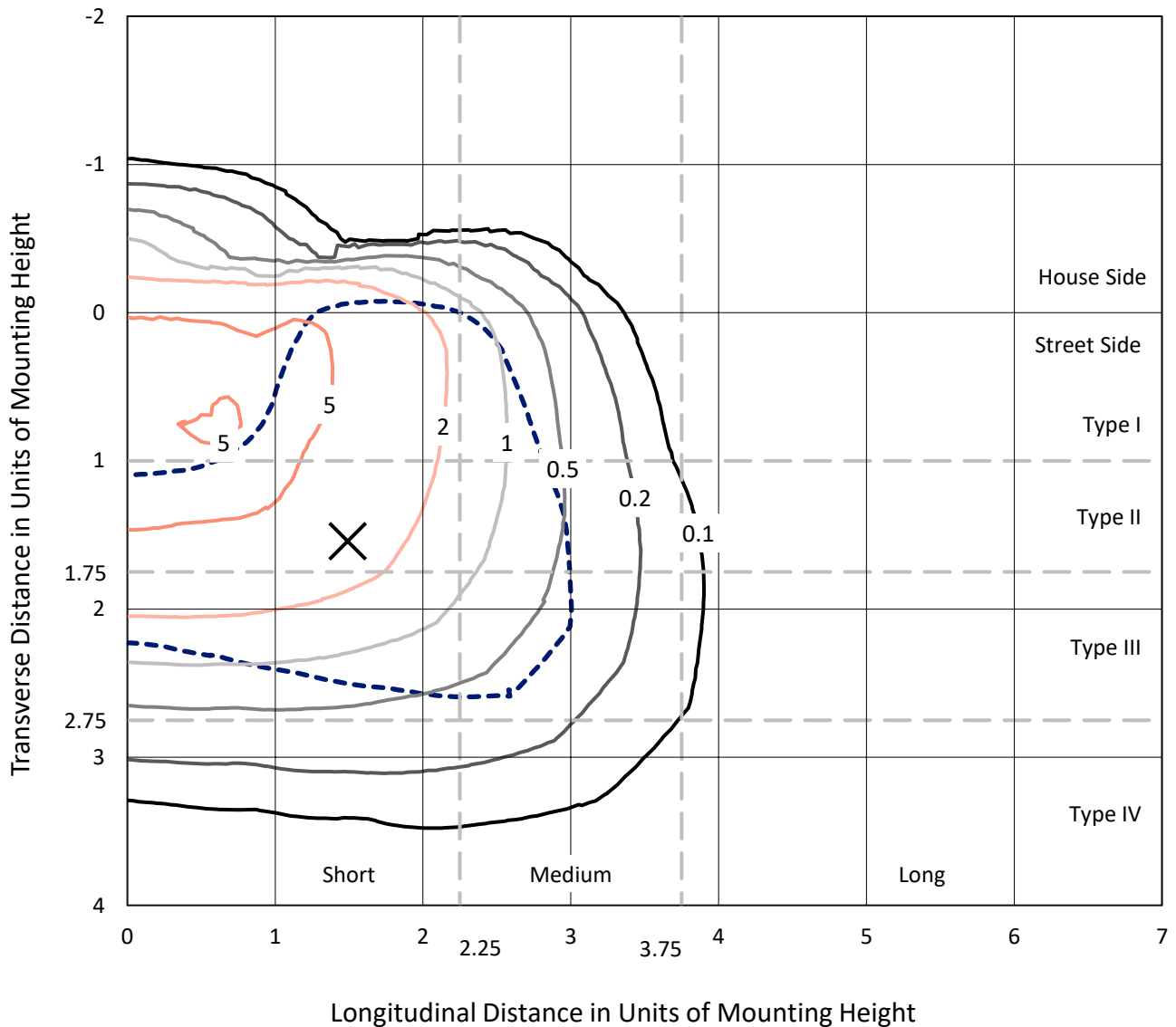
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

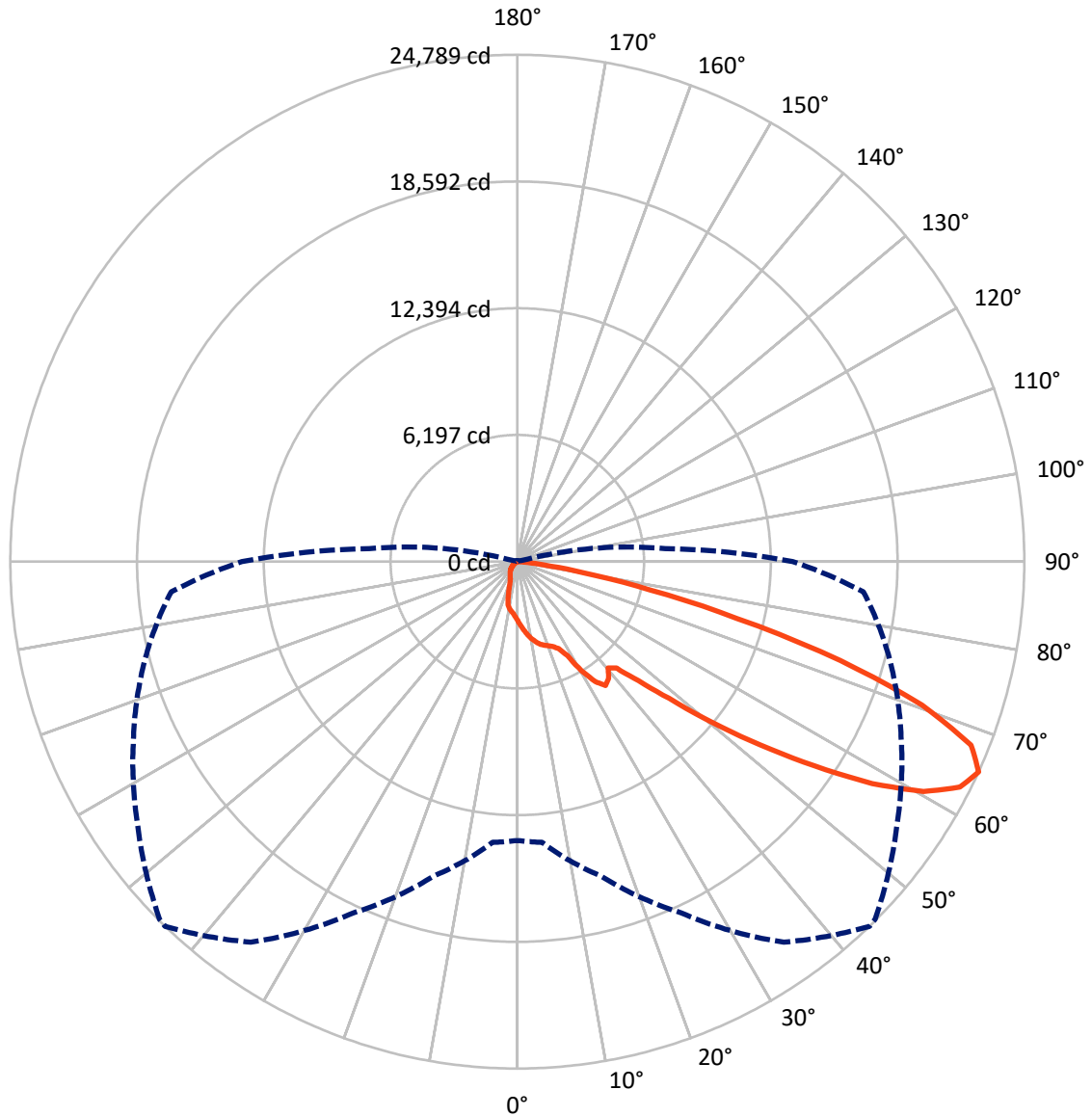
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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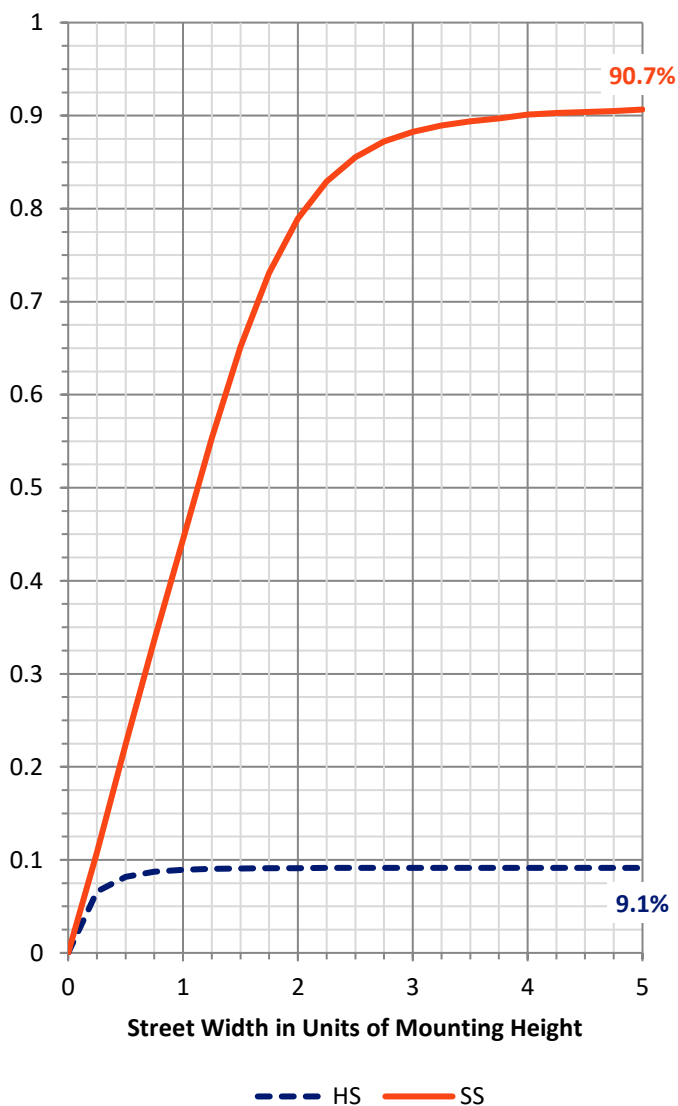
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.9	0.0	2852.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	28111.1	0.0	28111.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	30964.0	0.0	30964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	0.9
10°-20°	862.7	2.8
20°-30°	1462.8	4.7
30°-40°	2432.1	7.9
40°-50°	4246.5	13.7
50°-60°	8296.0	26.8
60°-70°	9625.4	31.1
70°-80°	3505.1	11.3
80°-90°	247.0	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°	30964.0	100.0
0°-180°	30964.0	100.0

Coefficient of Utilization

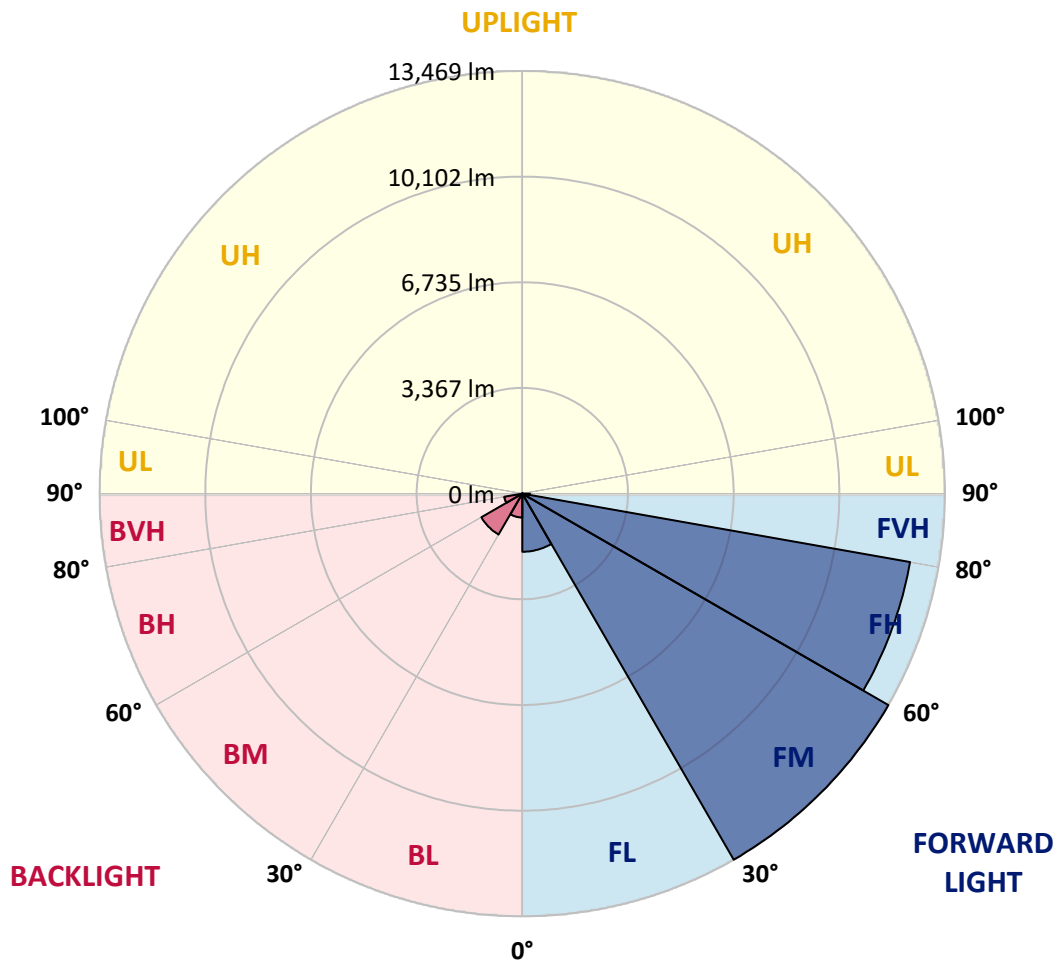


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1851.9	6.0			
FM	(30°-60°)	13469.4	43.5			
FH	(60°-80°)	12546.2	40.5			G5
FVH	(80°-90°)	243.6	0.8			G3/500
BL	(0°-30°)	760.1	2.5	B2/1000		
BM	(30°-60°)	1505.2	4.9	B2/2500		
BH	(60°-80°)	584.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8
2.5°	3243.8	3229.6	3222.5	3184.7	3156.3	3120.8	3120.8	3075.8	3023.8	2967.0	2914.9
5°	3605.8	3582.2	3551.4	3518.3	3452.0	3357.4	3357.4	3262.8	3153.9	3056.9	2950.4
7.5°	3953.6	3932.3	3880.3	3816.4	3707.6	3608.2	3601.1	3463.9	3333.7	3187.0	3035.6
10°	4258.9	4242.3	4197.3	4074.3	3960.7	3830.6	3828.2	3674.4	3523.0	3343.2	3156.3
12.5°	4471.8	4474.2	4415.0	4296.7	4150.0	4027.0	4017.5	3866.1	3707.6	3513.6	3284.1
15°	4623.2	4623.2	4561.7	4429.2	4296.7	4187.9	4178.4	4045.9	3882.7	3672.1	3423.6
17.5°	4665.8	4680.0	4613.8	4495.5	4389.0	4294.3	4292.0	4180.8	4050.6	3847.2	3565.6
20°	4649.2	4663.4	4611.4	4519.1	4445.8	4391.4	4384.3	4339.3	4218.6	4027.0	3717.0
22.5°	4613.8	4628.0	4590.1	4535.7	4500.2	4516.8	4504.9	4542.8	4478.9	4247.0	3896.9
25°	4620.9	4635.1	4606.7	4575.9	4606.7	4708.4	4739.2	4902.4	4845.6	4526.2	4090.9
27.5°	4843.3	4871.7	4831.4	4845.6	4954.5	5191.1	5250.2	5531.8	5281.0	4881.1	4393.7
30°	5337.8	5318.8	5243.1	5311.7	5690.3	6191.9	6175.3	6130.4	5737.6	5290.4	4753.4
32.5°	5787.3	5770.7	5766.0	6061.8	6747.9	6991.6	6979.8	6544.4	6146.9	5758.9	5108.3
35°	5969.5	5905.6	5891.4	6608.3	7755.8	7434.1	7360.7	6714.8	6643.8	6270.0	5470.3
37.5°	6518.4	6473.5	6253.4	6698.2	7353.6	7247.2	7190.4	7008.2	7173.8	6721.9	5879.6
40°	7649.4	7524.0	7325.2	6889.9	6783.4	6828.4	6885.1	7384.4	7800.8	7339.4	6426.1
42.5°	9054.8	9026.4	8657.3	7845.8	7048.4	7109.9	7183.3	8169.9	8702.3	8269.3	7318.1
45°	10741.8	10782.0	10249.6	9291.4	8245.6	8297.7	8404.1	9329.3	9923.1	9714.9	8721.2
47.5°	12275.0	12244.2	12064.4	11068.3	10102.9	9987.0	10159.7	10817.5	11612.5	11645.6	10462.6
50°	13817.6	13980.9	13713.5	13323.1	12606.2	12362.5	12298.6	12620.4	13831.8	13673.3	12554.2
52.5°	16034.6	16119.8	15618.2	15518.8	15682.0	14891.8	14827.9	14906.0	15989.6	15445.4	14120.5
55°	17428.2	17378.5	17191.6	17967.6	18613.6	17626.9	17546.5	17231.8	17780.7	16697.1	15627.6
57.5°	17868.3	17939.2	18374.6	19777.6	21306.1	20468.5	20321.8	19427.5	19072.6	17863.5	17014.1
60°	17671.9	17802.0	18741.3	20828.2	22948.1	22822.7	22697.3	21194.9	20000.1	18838.3	17986.6
62.5°	16273.6	16455.7	17958.2	20641.2	23504.1	24287.3	24131.1	22297.5	20617.6	19311.5	18156.9
65°	13637.8	13772.7	15930.5	18944.8	22713.9	24788.9	24732.1	22642.9	20714.6	18878.6	16990.5
67.5°	9722.0	10181.0	12180.3	15966.0	20376.3	23932.4	24029.4	22228.9	19803.7	17007.0	14070.8
70°	6111.5	6423.8	7857.6	11430.3	16335.1	20996.2	21315.6	20333.7	17186.8	13256.9	9419.2
72.5°	2914.9	3146.8	4168.9	7235.3	11529.7	16519.6	16772.8	16692.3	13290.0	8352.1	4859.8
75°	1299.0	1386.5	1989.8	3693.4	7443.5	11103.8	11759.2	11868.0	8304.8	4086.1	1890.5
77.5°	662.5	664.9	932.2	1788.7	3717.0	6624.9	6755.0	7135.9	4502.6	1800.5	657.8
80°	352.5	376.2	494.5	844.7	1928.3	3262.8	3246.2	3568.0	1996.9	882.5	220.0
82.5°	158.5	175.1	279.2	442.4	941.7	1237.4	1334.4	1459.8	856.5	563.1	97.0
85°	47.3	56.8	137.2	222.4	340.7	357.3	399.9	515.8	485.0	399.9	49.7
87.5°	7.1	7.1	56.8	61.5	49.7	63.9	66.2	73.3	156.2	146.7	26.0
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°	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8	2881.8
2.5°	2886.6	2870.0	2810.8	2761.2	2718.6	2692.5	2661.8	2642.9	2633.4	2626.3	2628.7
5°	2898.4	2858.2	2756.4	2676.0	2614.5	2548.2	2503.3	2477.2	2465.4	2446.5	2446.5
7.5°	2964.6	2900.8	2758.8	2635.8	2529.3	2439.4	2354.2	2323.4	2302.1	2297.4	2292.7
10°	3059.3	2978.8	2784.8	2614.5	2463.0	2340.0	2219.3	2112.9	2030.1	1980.4	1973.3
12.5°	3177.6	3061.6	2825.0	2600.3	2406.3	2188.6	1869.2	1653.9	1509.5	1464.6	1471.7
15°	3286.4	3161.0	2865.3	2588.4	2302.1	1814.7	1452.7	1206.7	1133.3	1126.2	1128.6
17.5°	3416.5	3267.5	2912.6	2571.9	2015.9	1386.5	1078.9	1012.7	1026.9	1050.5	1048.2
20°	3551.4	3381.1	2969.4	2472.5	1608.9	1043.4	953.5	960.6	981.9	1003.2	1007.9
22.5°	3695.7	3511.2	3035.6	2233.5	1228.0	908.6	903.8	913.3	934.6	958.2	963.0
25°	3894.5	3674.4	3085.3	1921.2	929.8	839.9	849.4	866.0	884.9	910.9	915.7
27.5°	4150.0	3894.5	3111.3	1514.3	804.5	778.4	780.8	804.5	828.1	851.8	851.8
30°	4481.3	4157.1	3059.3	1145.2	742.9	719.3	709.8	724.0	754.8	778.4	780.8
32.5°	4777.0	4405.5	2922.0	875.4	698.0	664.9	641.2	643.6	655.4	669.6	672.0
35°	5072.8	4646.9	2687.8	735.8	650.7	612.8	577.3	558.4	548.9	541.8	548.9
37.5°	5451.3	4947.4	2375.5	669.6	610.4	563.1	513.4	473.2	440.1	418.8	423.5
40°	5938.7	5363.8	2006.4	627.0	572.6	515.8	449.5	397.5	340.7	321.8	312.3
42.5°	6743.2	5995.5	1618.4	591.5	534.7	466.1	383.3	312.3	260.3	241.3	246.1
45°	8013.7	6792.9	1246.9	553.7	496.9	411.7	321.8	246.1	203.5	194.0	198.7
47.5°	9698.4	7824.5	960.6	511.1	449.5	352.5	253.2	194.0	168.0	165.6	163.3
50°	11283.6	8785.1	802.1	463.7	392.8	293.4	208.2	163.3	146.7	144.3	144.3
52.5°	12717.4	9473.6	653.0	409.3	331.2	241.3	175.1	144.3	130.1	123.0	123.0
55°	13992.7	9923.1	530.0	343.1	260.3	191.6	151.4	130.1	113.6	104.1	101.7
57.5°	14955.7	9977.6	397.5	274.5	194.0	149.1	130.1	113.6	94.6	82.8	78.1
60°	15367.4	9506.7	293.4	208.2	144.3	118.3	104.1	92.3	71.0	59.2	56.8
62.5°	14953.3	8591.1	217.7	158.5	111.2	87.5	73.3	68.6	49.7	35.5	33.1
65°	13469.8	7268.4	172.7	120.7	82.8	63.9	47.3	45.0	30.8	16.6	14.2
67.5°	10791.5	5692.7	137.2	89.9	59.2	42.6	30.8	28.4	16.6	4.7	4.7
70°	7017.6	3639.0	111.2	66.2	37.9	28.4	18.9	14.2	9.5	2.4	0.0
72.5°	3471.0	1701.2	89.9	52.1	26.0	14.2	7.1	4.7	7.1	0.0	0.0
75°	1346.3	605.7	66.2	35.5	14.2	7.1	4.7	0.0	2.4	0.0	0.0
77.5°	447.2	201.1	40.2	18.9	9.5	4.7	0.0	0.0	0.0	0.0	0.0
80°	165.6	78.1	21.3	11.8	4.7	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	66.2	30.8	14.2	9.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	18.9	9.5	7.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	14.2	9.5	7.1	4.7	2.4	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)