

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: P647581

Luminaire Tested: **GALN-SA7D-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647581
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-SA7D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 30520.6 lumens
Efficiency: N/A
Efficacy: 70.5 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

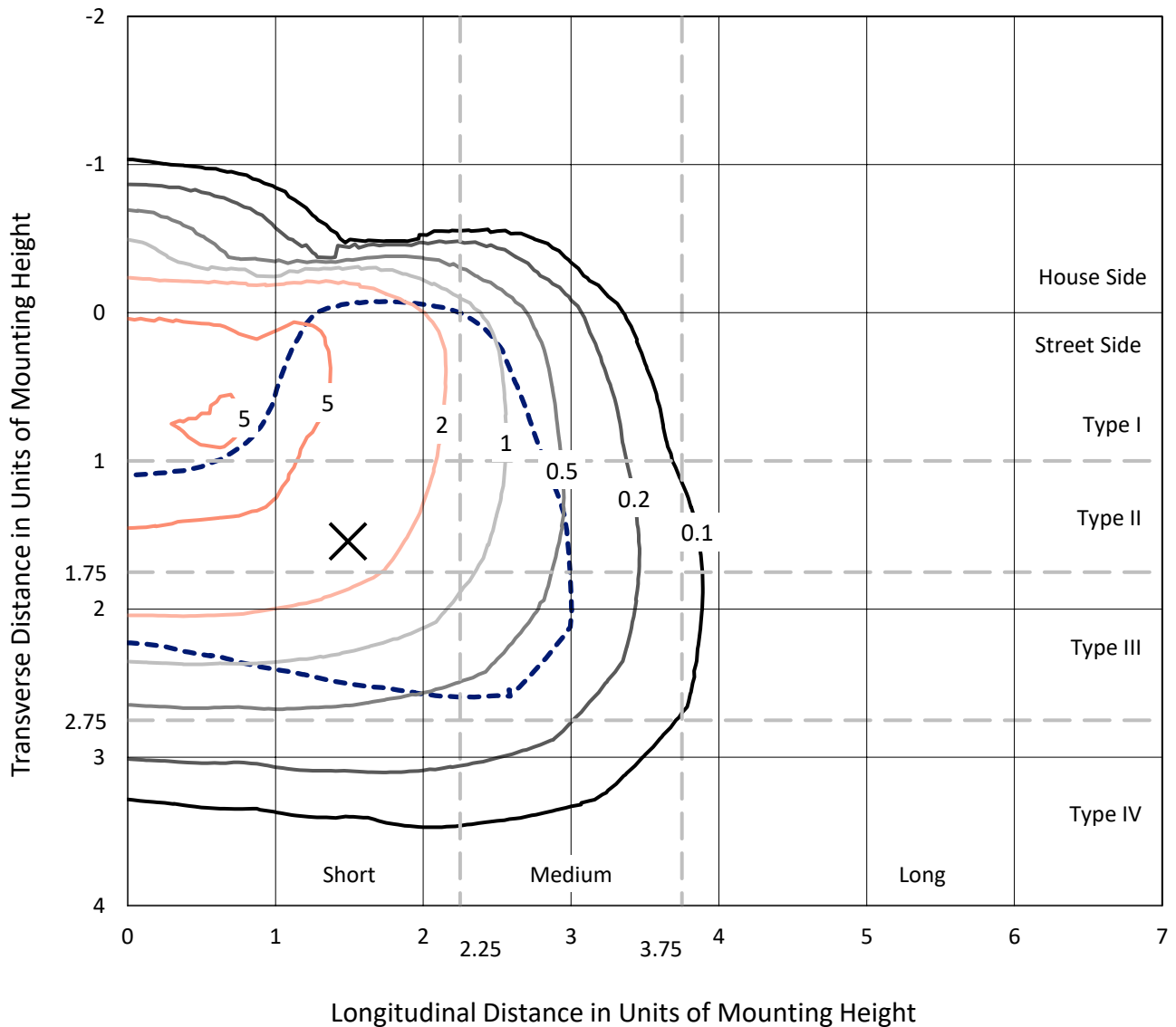
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647581
 CATALOG NUMBER: GALN-SA7D-835-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

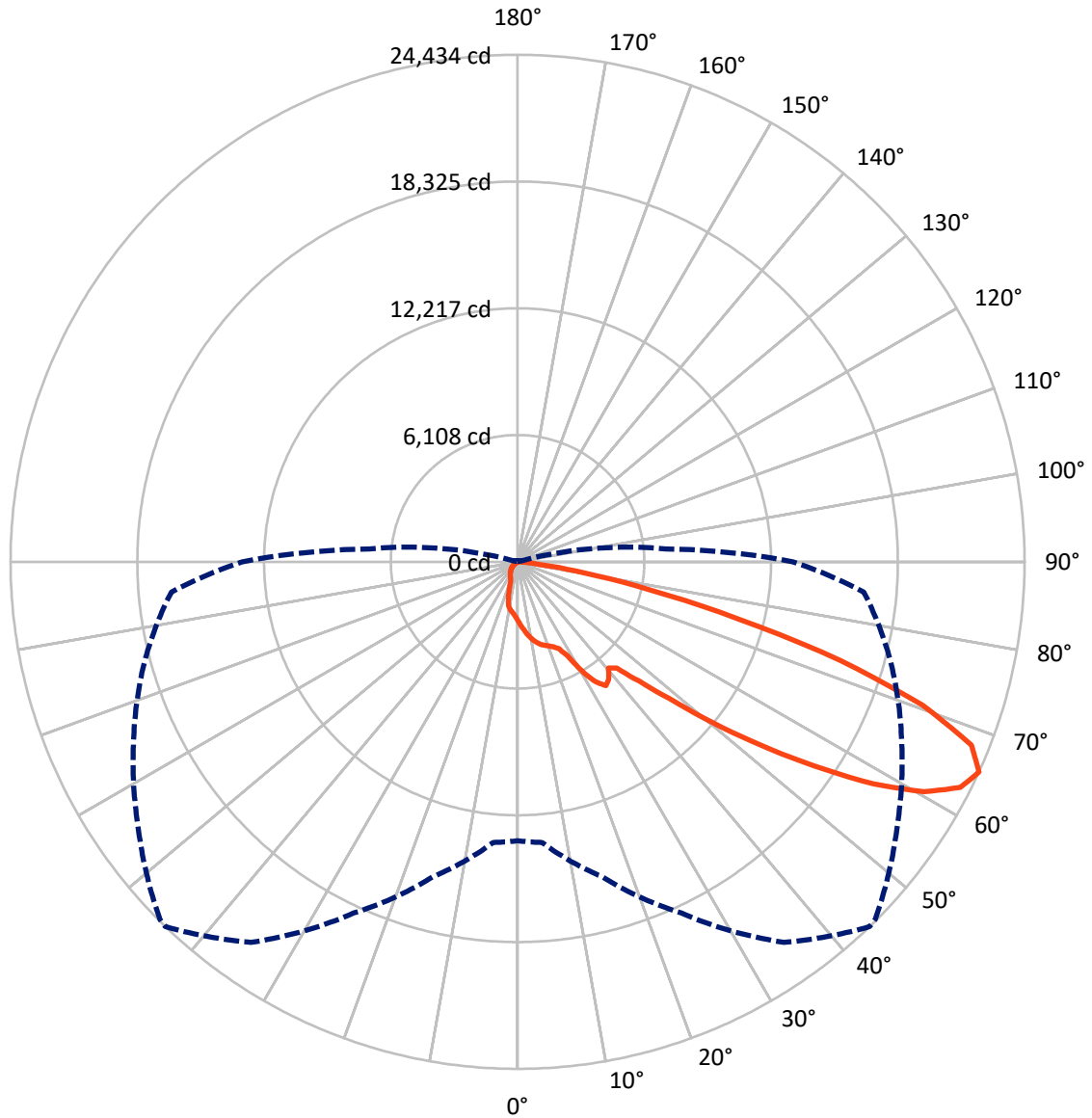
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

REPORT NUMBER: P647581
CATALOG NUMBER: GALN-SA7D-835-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-SA7D-835-U-T4W-HSS

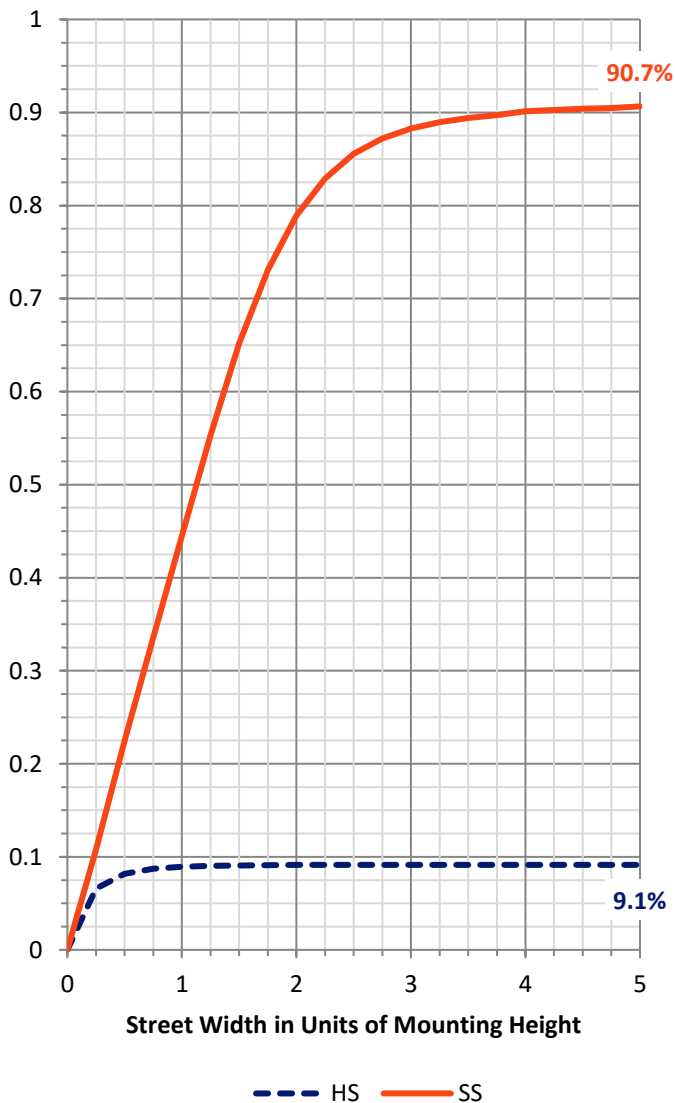
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2812.0	0.0	2812.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	27708.5	0.0	27708.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	30520.6	0.0	30520.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.5	0.9
10°-20°	850.3	2.8
20°-30°	1441.8	4.7
30°-40°	2397.2	7.9
40°-50°	4185.6	13.7
50°-60°	8177.2	26.8
60°-70°	9487.5	31.1
70°-80°	3454.9	11.3
80°-90°	243.4	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°	30520.6	100.0
0°-180°	30520.6	100.0

Coefficient of Utilization



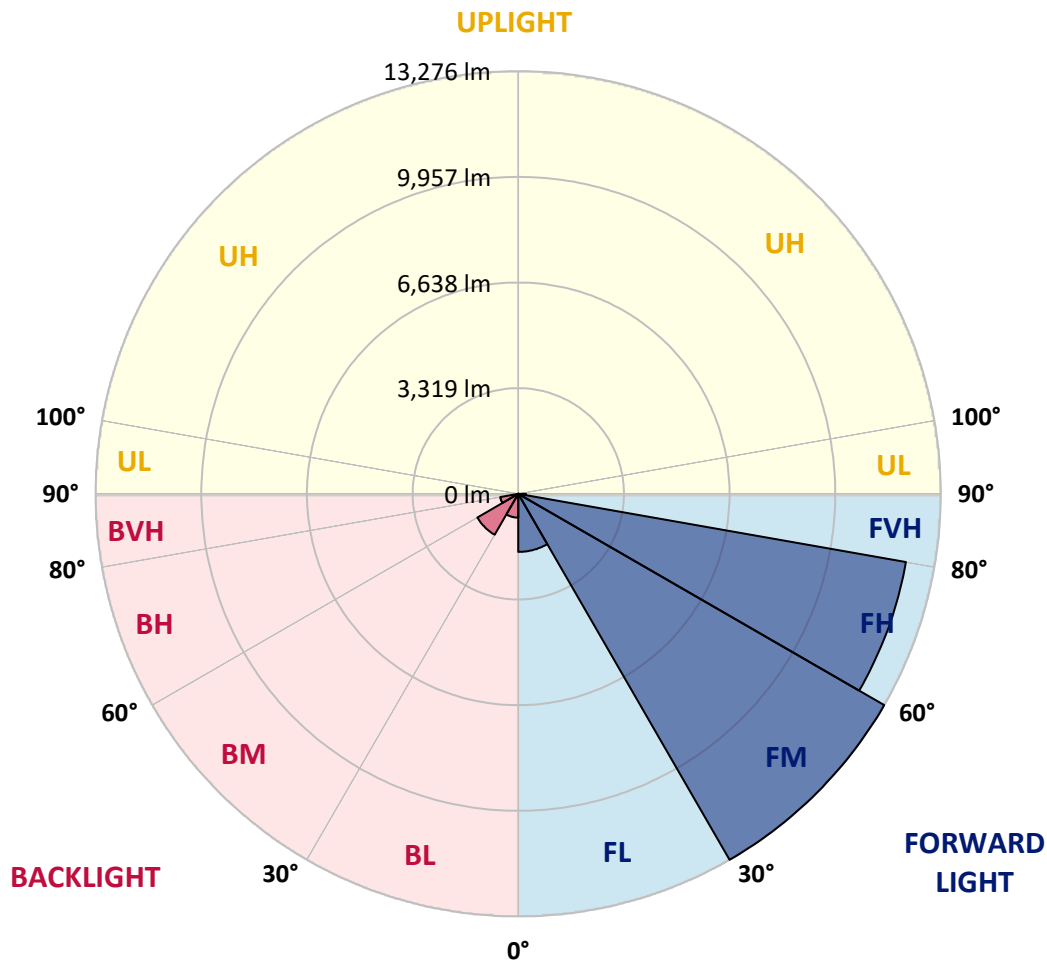
REPORT NUMBER: P647581
 CATALOG NUMBER: GALN-SA7D-835-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.4	6.0			
FM (30°-60°)	13276.5	43.5			
FH (60°-80°)	12366.5	40.5			G5
FVH (80°-90°)	240.1	0.8			G3/500
BL (0°-30°)	749.2	2.5	B2/1000		
BM (30°-60°)	1483.6	4.9	B2/2500		
BH (60°-80°)	575.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G5

Type III Short





REPORT NUMBER: P647581

CATALOG NUMBER: GALN-SA7D-835-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6
2.5°	3197.4	3183.4	3176.4	3139.0	3111.1	3076.1	3076.1	3031.8	2980.5	2924.5	2873.2
5°	3554.2	3530.9	3500.6	3467.9	3402.6	3309.3	3309.3	3216.0	3108.7	3013.1	2908.2
7.5°	3897.0	3876.0	3824.7	3761.8	3654.5	3556.5	3549.5	3414.3	3286.0	3141.4	2992.2
10°	4197.9	4181.5	4137.2	4015.9	3904.0	3775.8	3773.4	3621.8	3472.5	3295.3	3111.1
12.5°	4407.7	4410.1	4351.8	4235.2	4090.5	3969.3	3960.0	3810.7	3654.5	3463.2	3237.0
15°	4557.0	4557.0	4496.4	4365.8	4235.2	4127.9	4118.6	3988.0	3827.1	3619.5	3374.7
17.5°	4599.0	4613.0	4547.7	4431.1	4326.2	4232.8	4230.5	4120.9	3992.6	3792.1	3514.6
20°	4582.7	4596.7	4545.3	4454.4	4382.1	4328.4	4321.5	4277.1	4158.2	3969.3	3663.8
22.5°	4547.7	4561.7	4524.3	4470.7	4435.8	4452.1	4440.4	4477.7	4414.8	4186.2	3841.0
25°	4554.7	4568.6	4540.7	4510.4	4540.7	4641.0	4671.3	4832.2	4776.2	4461.4	4032.3
27.5°	4773.9	4801.9	4762.2	4776.2	4883.5	5116.7	5175.0	5452.6	5205.4	4811.2	4330.8
30°	5261.3	5242.7	5168.0	5235.7	5608.8	6103.3	6086.9	6042.6	5655.5	5214.7	4685.3
32.5°	5704.4	5688.1	5683.4	5975.0	6651.3	6891.5	6879.8	6450.7	6058.9	5676.4	5035.1
35°	5884.0	5821.1	5807.0	6513.7	7644.7	7327.6	7255.3	6618.6	6548.7	6180.2	5391.9
37.5°	6425.1	6380.7	6163.9	6602.3	7248.3	7143.4	7087.4	6907.8	7071.0	6625.6	5795.4
40°	7539.8	7416.3	7220.4	6791.2	6686.3	6730.6	6786.6	7278.6	7689.1	7234.3	6334.1
42.5°	8925.1	8897.2	8533.3	7733.4	6947.5	7008.1	7080.4	8052.9	8577.6	8150.9	7213.3
45°	10588.0	10627.6	10102.9	9158.4	8127.5	8178.8	8283.7	9195.6	9781.0	9575.8	8596.3
47.5°	12099.2	12068.8	11891.6	10909.8	9958.3	9844.0	10014.3	10662.6	11446.2	11478.9	10312.7
50°	13619.7	13780.6	13517.1	13132.3	12425.7	12185.4	12122.5	12439.7	13633.8	13477.5	12374.4
52.5°	15804.9	15888.9	15394.5	15296.5	15457.4	14678.5	14615.6	14692.5	15760.6	15224.3	13918.2
55°	17178.6	17129.6	16945.4	17710.3	18347.0	17374.5	17295.2	16985.0	17526.0	16458.0	15403.8
57.5°	17612.3	17682.3	18111.4	19494.4	21001.0	20175.4	20030.8	19149.3	18799.4	17607.7	16770.5
60°	17418.8	17547.0	18472.9	20529.9	22619.5	22495.9	22372.3	20891.4	19713.6	18568.5	17729.0
62.5°	16040.5	16220.1	17701.0	20345.6	23167.6	23939.4	23785.6	21978.1	20322.3	19035.0	17896.9
65°	13442.5	13575.4	15702.4	18673.5	22388.6	24433.9	24377.9	22318.6	20417.9	18608.2	16747.1
67.5°	9582.8	10035.2	12005.9	15737.3	20084.4	23589.7	23685.3	21910.5	19520.0	16763.5	13869.3
70°	6023.9	6331.8	7745.0	11266.6	16101.1	20695.5	21010.3	20042.5	16940.7	13067.0	9284.3
72.5°	2873.2	3101.8	4109.3	7131.7	11364.5	16283.0	16532.6	16453.3	13099.7	8232.5	4790.2
75°	1280.4	1366.6	1961.3	3640.5	7336.9	10944.8	11590.7	11698.0	8185.8	4027.6	1863.4
77.5°	653.0	655.4	918.9	1763.1	3663.8	6530.0	6658.2	7033.8	4438.0	1774.7	648.3
80°	347.5	370.8	487.4	832.6	1900.7	3216.0	3199.7	3516.8	1968.3	869.9	216.9
82.5°	156.3	172.6	275.2	436.1	928.2	1219.7	1315.4	1438.9	844.2	555.1	95.6
85°	46.7	56.0	135.3	219.2	335.8	352.1	394.2	508.4	478.1	394.2	48.9
87.5°	7.0	7.0	56.0	60.6	48.9	63.0	65.3	72.3	153.9	144.6	25.7
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: P647581

CATALOG NUMBER: GALN-SA7D-835-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6
2.5°	2845.2	2828.9	2770.6	2721.6	2679.7	2654.0	2623.7	2605.0	2595.6	2588.7	2591.0
5°	2856.9	2817.2	2716.9	2637.7	2577.0	2511.7	2467.4	2441.8	2430.1	2411.4	2411.4
7.5°	2922.2	2859.2	2719.3	2598.0	2493.1	2404.4	2320.5	2290.2	2269.2	2264.5	2259.8
10°	3015.5	2936.2	2745.0	2577.0	2427.8	2306.5	2187.5	2082.6	2001.0	1952.0	1945.0
12.5°	3132.1	3017.8	2784.6	2563.0	2371.8	2157.2	1842.4	1630.2	1487.9	1443.6	1450.6
15°	3239.3	3115.7	2824.2	2551.4	2269.2	1788.8	1432.0	1189.4	1117.1	1110.1	1112.4
17.5°	3367.6	3220.7	2870.9	2535.0	1987.0	1366.6	1063.5	998.2	1012.2	1035.4	1033.2
20°	3500.6	3332.6	2926.9	2437.1	1585.9	1028.5	939.8	946.9	967.9	988.9	993.5
22.5°	3642.8	3460.9	2992.2	2201.6	1210.4	895.5	890.9	900.2	921.2	944.5	949.2
25°	3838.7	3621.8	3041.1	1893.7	916.5	827.9	837.3	853.5	872.2	897.9	902.6
27.5°	4090.5	3838.7	3066.8	1492.6	792.9	767.3	769.6	792.9	816.3	839.6	839.6
30°	4417.1	4097.6	3015.5	1128.8	732.3	709.0	699.6	713.6	743.9	767.3	769.6
32.5°	4708.6	4342.4	2880.2	862.9	688.0	655.4	632.0	634.3	646.0	660.0	662.3
35°	5000.2	4580.3	2649.3	725.3	641.4	604.0	569.0	550.4	541.1	534.1	541.1
37.5°	5373.3	4876.5	2341.5	660.0	601.7	555.1	506.1	466.4	433.8	412.8	417.4
40°	5853.7	5287.0	1977.6	618.0	564.4	508.4	443.1	391.8	335.8	317.2	307.9
42.5°	6646.7	5909.7	1595.2	583.0	527.0	459.5	377.8	307.9	256.5	237.9	242.6
45°	7899.0	6695.6	1229.1	545.8	489.8	405.8	317.2	242.6	200.5	191.2	195.9
47.5°	9559.5	7712.4	946.9	503.8	443.1	347.5	249.5	191.2	165.6	163.3	160.9
50°	11122.0	8659.3	790.6	457.1	387.1	289.2	205.2	160.9	144.6	142.3	142.3
52.5°	12535.3	9337.9	643.7	403.5	326.5	237.9	172.6	142.3	128.3	121.3	121.3
55°	13792.3	9781.0	522.4	338.2	256.5	188.9	149.2	128.3	112.0	102.7	100.3
57.5°	14741.5	9834.6	391.8	270.5	191.2	146.9	128.3	112.0	93.3	81.6	77.0
60°	15147.3	9370.6	289.2	205.2	142.3	116.6	102.7	91.0	70.0	58.3	56.0
62.5°	14739.2	8468.0	214.5	156.3	109.6	86.3	72.3	67.7	48.9	35.0	32.7
65°	13276.9	7164.4	170.2	118.9	81.6	63.0	46.7	44.3	30.3	16.3	14.0
67.5°	10636.9	5611.1	135.3	88.6	58.3	42.0	30.3	28.0	16.3	4.7	4.7
70°	6917.2	3586.8	109.6	65.3	37.3	28.0	18.6	14.0	9.3	2.3	0.0
72.5°	3421.2	1676.8	88.6	51.3	25.7	14.0	7.0	4.7	7.0	0.0	0.0
75°	1327.0	597.0	65.3	35.0	14.0	7.0	4.7	0.0	2.3	0.0	0.0
77.5°	440.8	198.3	39.6	18.6	9.3	4.7	0.0	0.0	0.0	0.0	0.0
80°	163.3	77.0	21.0	11.7	4.7	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	65.3	30.3	14.0	9.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.7	18.6	9.3	7.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	14.0	9.3	7.0	4.7	2.3	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)