

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: P647565

Luminaire Tested: **GALN-SA7D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31539.3 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

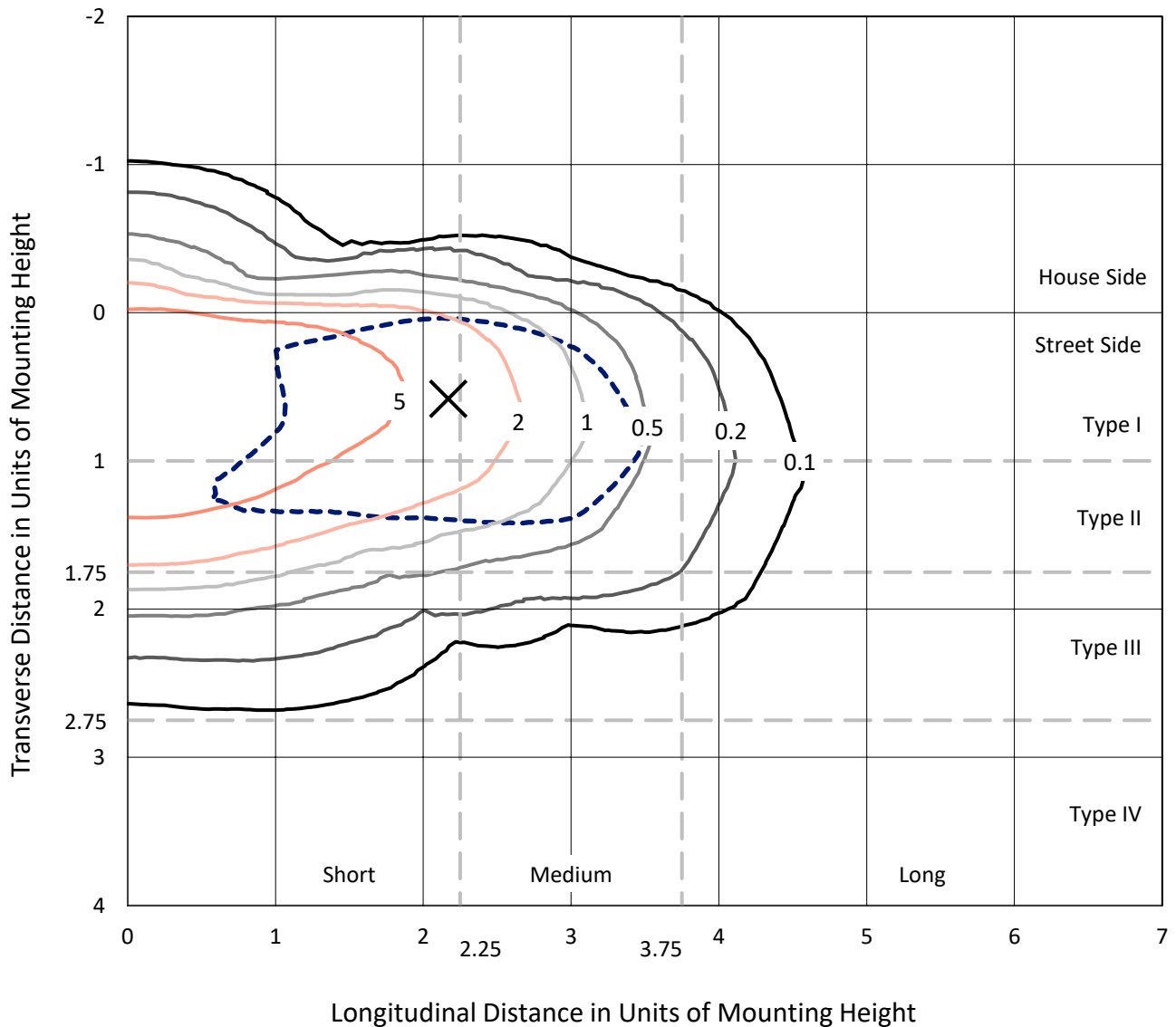
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

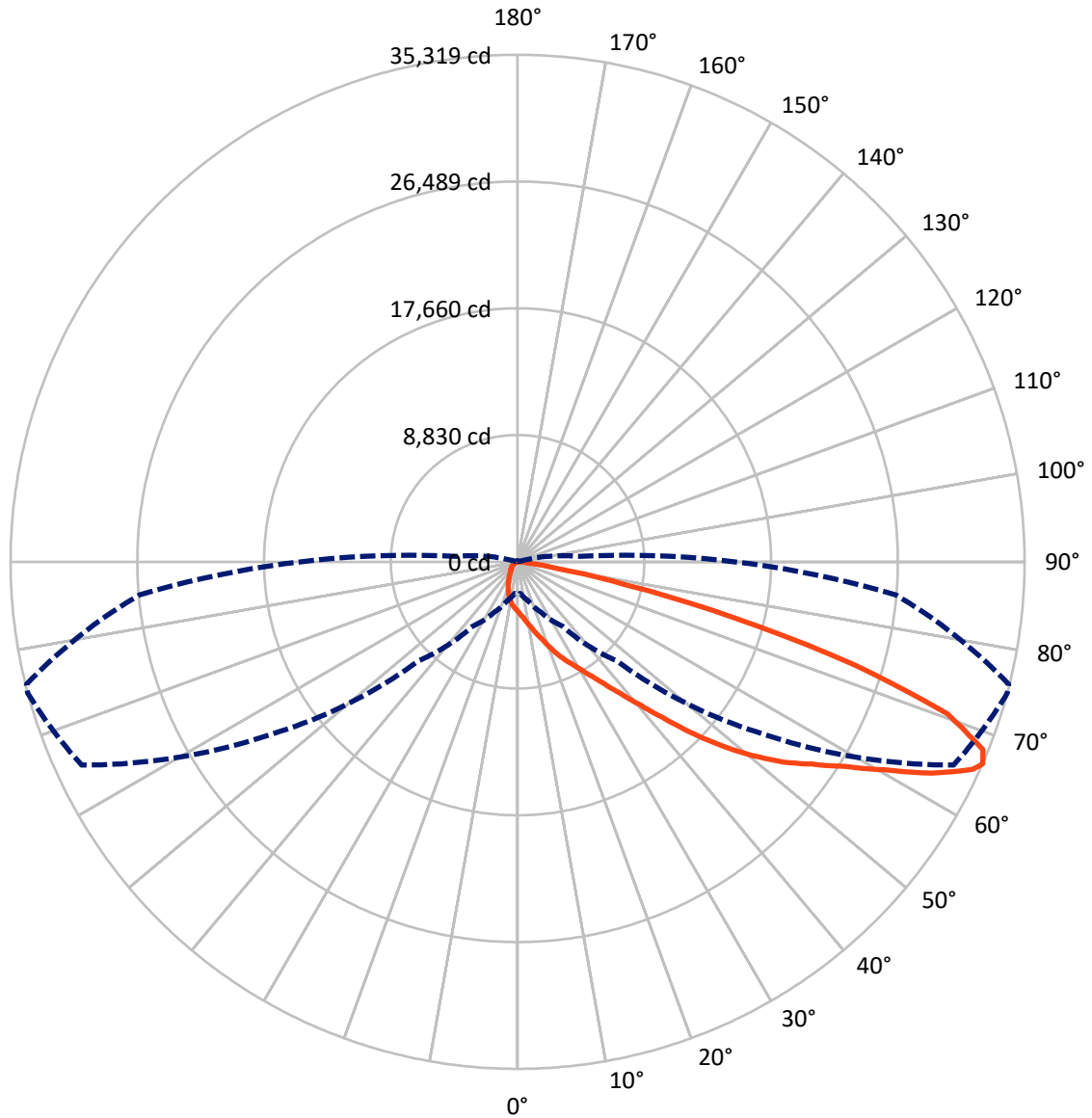
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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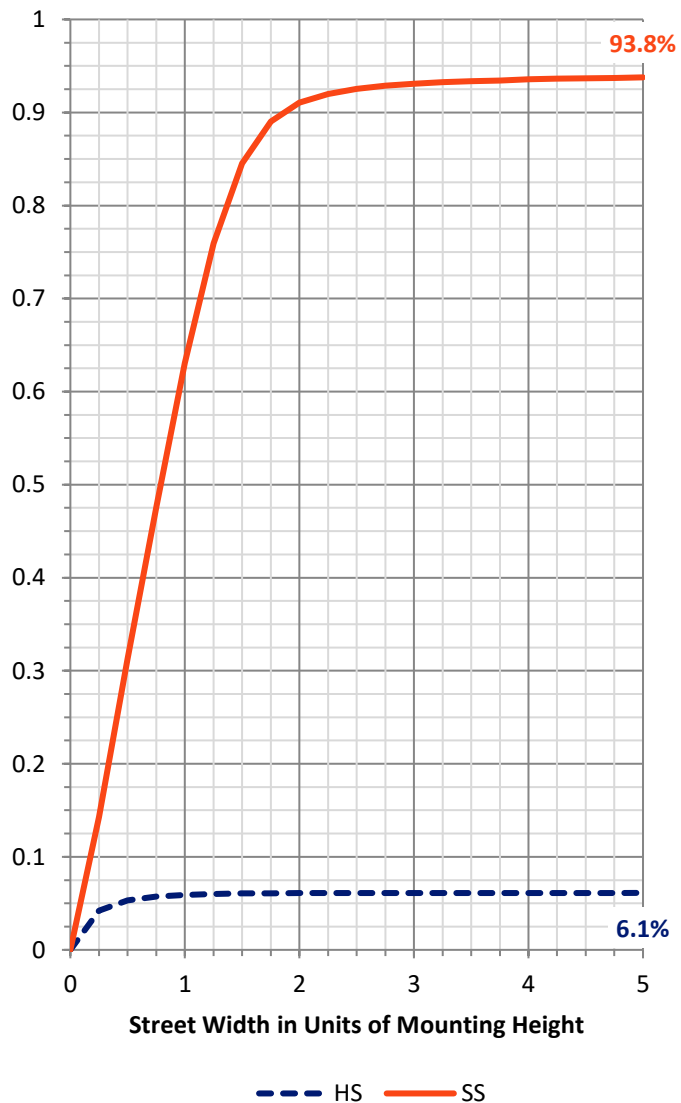
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.1	0.0	1947.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	29592.2	0.0	29592.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	31539.3	0.0	31539.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.7	1.1
10°-20°	979.1	3.1
20°-30°	1690.6	5.4
30°-40°	3049.6	9.7
40°-50°	5509.1	17.5
50°-60°	8588.8	27.2
60°-70°	8159.0	25.9
70°-80°	3057.8	9.7
80°-90°	172.5	0.5
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°	31539.3	100.0
0°-180°	31539.3	100.0

Coefficient of Utilization

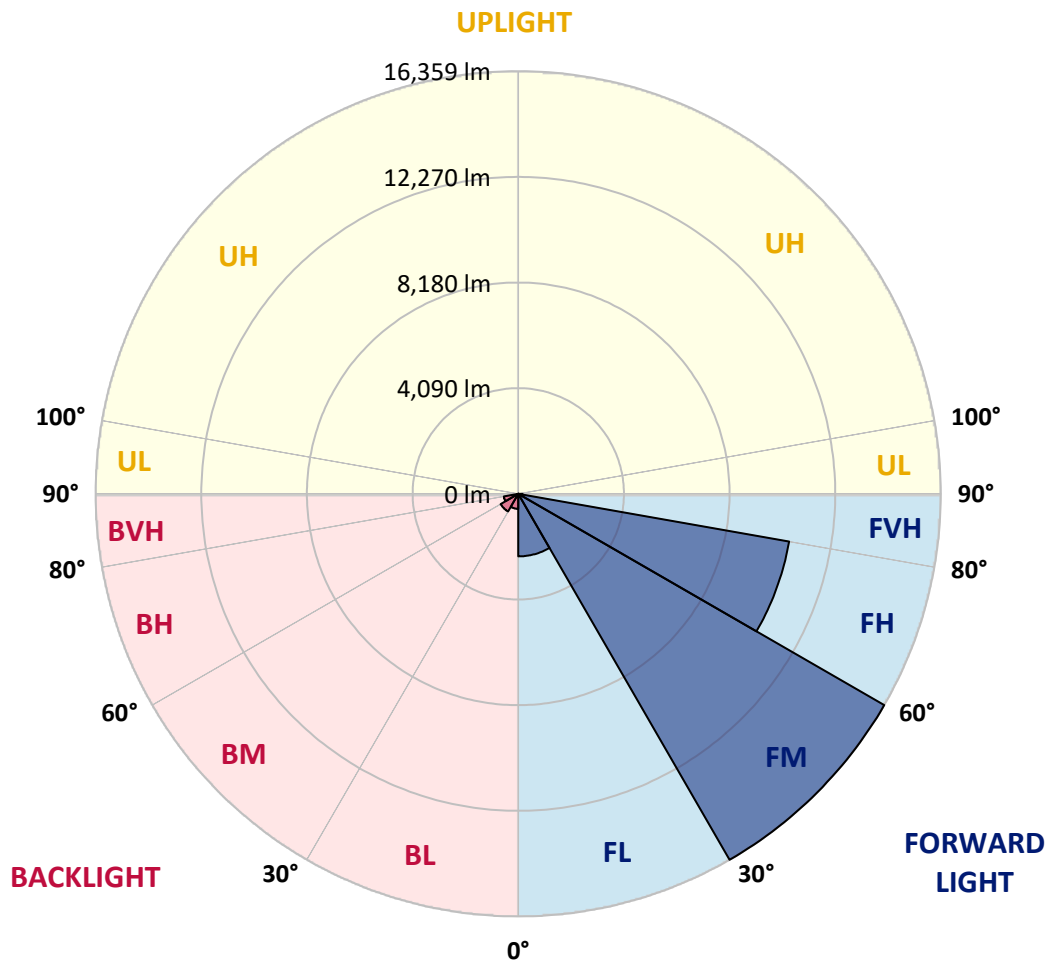


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2420.9	7.7			
FM (30°-60°)	16359.4	51.9			
FH (60°-80°)	10648.2	33.8			G4/12000
FVH (80°-90°)	163.6	0.5			G2/225
BL (0°-30°)	581.5	1.8	B2/1000		
BM (30°-60°)	788.1	2.5	B1/1000		
BH (60°-80°)	568.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1
2.5°	4120.8	4069.5	4085.8	4062.4	4008.8	3929.6	3859.6	3759.3	3659.0	3642.7	3530.8
5°	4664.1	4650.2	4631.5	4563.9	4526.5	4405.2	4260.7	4088.1	3880.5	3843.3	3640.3
7.5°	5034.9	5028.0	5037.3	5002.3	4969.6	4860.0	4706.1	4470.5	4148.7	4127.7	3789.6
10°	5156.2	5174.8	5209.8	5265.8	5317.1	5282.1	5165.5	4871.7	4496.2	4435.6	3959.9
12.5°	5086.2	5107.2	5191.2	5340.5	5506.0	5601.7	5555.0	5340.5	4864.7	4815.7	4151.1
15°	4906.7	4932.4	5051.3	5282.1	5578.3	5848.9	5965.4	5811.5	5293.8	5214.5	4382.0
17.5°	4640.8	4678.1	4848.3	5153.9	5559.6	6026.0	6354.9	6303.5	5750.9	5676.3	4633.8
20°	4440.2	4468.3	4612.8	4962.7	5480.4	6124.0	6725.7	6870.3	6315.2	6187.0	4930.0
22.5°	4573.2	4582.5	4631.5	4841.4	5338.1	6149.7	7052.2	7460.3	6914.6	6800.3	5237.8
25°	5223.9	5130.5	5081.6	5034.9	5307.8	6126.3	7348.4	8075.9	7511.6	7390.3	5543.3
27.5°	6249.9	6207.9	5960.7	5629.6	5566.7	6156.7	7544.2	8659.0	8073.6	7943.0	5841.8
30°	7367.0	7294.7	7143.2	6658.1	6170.7	6371.2	7686.5	9225.7	8738.3	8565.7	6114.7
32.5°	8393.1	8439.7	8213.5	7714.5	7150.1	6828.3	7870.7	9843.6	9500.8	9286.3	6431.9
35°	9589.5	9682.7	9335.2	8857.2	8197.2	7653.8	8229.9	10541.0	10468.6	10198.1	6921.6
37.5°	10804.5	10860.4	10648.3	9976.6	9381.9	8703.3	8906.2	11401.5	11660.4	11429.5	7506.9
40°	11825.9	11902.9	11746.6	11149.6	10515.3	9918.3	9888.0	12339.0	13078.2	12840.3	8379.1
42.5°	12607.2	12665.5	12670.1	12248.0	11676.6	11406.1	11140.3	13535.3	14855.2	14580.1	9391.2
45°	13593.6	13677.6	13628.6	13341.8	12915.0	12866.0	12728.4	14981.2	16982.1	16634.6	10704.2
47.5°	15118.8	15174.8	15053.5	14715.3	14281.6	14358.6	14276.9	16601.9	19150.9	18852.4	12063.8
50°	16177.6	16270.8	16443.4	16578.7	16263.8	15979.3	15736.8	18115.5	21210.1	20942.0	13453.7
52.5°	16165.9	16319.8	16865.5	17546.5	18234.4	18148.1	17450.9	19787.6	23176.1	22845.0	14759.6
55°	15076.8	15375.3	16177.6	17385.6	19290.8	20240.0	19922.9	21723.2	24873.8	24649.9	16273.2
57.5°	12828.7	13010.6	14125.3	15813.8	18700.9	21224.2	22786.6	24346.8	26909.8	26804.8	18623.9
60°	8628.7	8710.2	10144.5	12231.7	15921.1	20242.4	24885.5	27520.7	29416.7	29365.4	21368.7
62.5°	4944.0	4978.9	6019.1	7779.8	11329.1	17154.7	25062.7	31436.3	32422.7	32450.7	24545.0
65°	2660.9	2679.6	3519.1	4566.2	6893.6	12227.0	22537.1	33581.8	34852.7	34906.4	26513.2
66°	2297.1	2208.5	2800.8	3892.2	5485.0	9731.8	20939.6	33504.8	35319.2	35260.8	26443.3
67.5°	1746.7	1826.0	2236.5	2992.1	4064.8	6919.2	17287.6	32014.6	34964.7	34782.8	25368.3
70°	1250.0	1282.6	1592.8	2133.8	2768.1	3796.6	11047.0	26590.2	31779.1	31534.2	22101.0
72.5°	806.9	841.9	1128.7	1543.8	2000.9	2073.2	6184.6	19211.6	24500.7	24465.7	16644.0
75°	576.1	608.7	746.3	1105.4	1504.2	1282.6	2978.1	12947.6	15575.9	15470.9	10296.1
77.5°	417.4	433.8	499.1	722.9	1075.1	918.9	1380.6	6914.6	7754.1	8120.3	4549.9
80°	240.2	254.2	347.5	440.8	727.6	627.3	660.0	2775.2	2861.5	2723.8	1422.6
82.5°	118.9	135.2	207.6	300.8	454.8	422.1	303.2	834.9	881.5	858.2	359.2
85°	28.0	35.0	116.6	198.3	221.5	188.9	146.9	244.8	303.2	296.2	137.6
87.5°	2.3	4.7	42.0	35.0	37.3	63.0	51.3	63.0	98.0	91.0	48.9
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°	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1
2.5°	3479.4	3435.1	3306.8	3180.9	3076.0	2966.4	2866.1	2807.8	2784.5	2758.8	2770.5
5°	3528.4	3421.2	3162.3	2938.4	2719.2	2532.6	2383.4	2287.8	2241.1	2234.1	2222.5
7.5°	3593.7	3409.5	3008.4	2658.5	2371.7	2164.1	1993.9	1856.3	1814.4	1777.0	1746.7
10°	3673.0	3388.5	2817.2	2364.7	2059.2	1798.0	1574.1	1410.9	1327.0	1303.6	1320.0
12.5°	3757.0	3348.8	2616.6	2094.2	1742.0	1408.5	1201.0	1119.4	1096.0	1086.7	1089.1
15°	3840.9	3299.9	2406.7	1833.0	1387.6	1124.1	1028.5	1007.5	998.1	993.5	988.8
17.5°	3917.9	3220.6	2171.2	1578.8	1124.1	960.8	925.8	907.2	888.5	881.5	869.8
20°	4008.8	3129.7	1958.9	1294.3	951.5	869.8	827.9	792.9	764.9	746.3	743.9
22.5°	4095.1	3013.1	1737.4	1072.8	867.6	781.3	713.6	676.3	643.6	620.3	627.3
25°	4141.8	2870.8	1539.1	935.1	790.6	692.6	618.0	571.4	536.4	524.7	522.4
27.5°	4141.8	2695.9	1345.6	855.9	720.6	613.3	536.4	492.0	468.8	452.4	454.8
30°	4109.1	2502.3	1166.0	795.2	660.0	543.4	471.1	431.4	412.8	401.1	398.8
32.5°	4083.4	2318.1	1012.1	737.0	597.0	482.7	419.8	389.5	370.8	359.2	359.2
35°	4123.1	2159.5	893.2	678.6	538.7	436.1	380.1	352.1	333.5	324.2	321.8
37.5°	4228.0	2014.9	802.3	615.7	485.1	396.4	352.1	319.5	300.8	289.2	284.5
40°	4486.9	1933.3	734.6	557.3	433.8	363.8	319.5	289.2	265.8	254.2	251.9
42.5°	4902.0	1935.7	669.3	503.7	394.1	335.8	291.5	256.5	230.9	219.2	216.9
45°	5527.0	2024.2	618.0	452.4	359.2	305.5	261.2	223.9	200.5	188.9	188.9
47.5°	6275.6	2196.8	573.7	408.1	326.5	277.5	230.9	193.6	170.2	160.9	160.9
50°	7087.2	2420.7	529.4	361.4	298.5	247.2	198.3	167.9	149.2	142.3	142.3
52.5°	7915.0	2691.2	485.1	324.2	268.2	214.5	170.2	149.2	133.0	128.3	125.9
55°	9001.8	3036.3	438.4	284.5	235.5	184.2	151.6	130.6	112.0	104.9	102.6
57.5°	10673.9	3556.4	387.1	249.5	193.6	153.9	130.6	109.6	88.6	77.0	74.6
60°	12691.1	4190.7	333.5	219.2	156.3	125.9	104.9	83.9	65.3	51.3	48.9
62.5°	14580.1	4594.2	282.2	184.2	123.6	95.6	74.6	63.0	46.7	32.7	30.3
65°	15415.0	4459.0	233.2	149.2	98.0	67.7	48.9	44.3	28.0	14.0	11.7
66°	15137.4	4258.3	214.5	135.2	88.6	58.3	42.0	37.3	21.0	7.0	7.0
67.5°	14318.9	3784.9	186.6	116.6	77.0	46.7	32.7	28.0	11.7	2.3	0.0
70°	12269.0	3062.0	146.9	86.3	56.0	32.7	18.6	14.0	7.0	0.0	0.0
72.5°	9423.9	2280.8	116.6	65.3	39.6	18.6	9.3	4.7	7.0	0.0	0.0
75°	5774.2	1303.6	91.0	48.9	25.7	11.7	7.0	0.0	7.0	2.3	0.0
77.5°	2562.9	585.4	60.6	32.7	18.6	9.3	4.7	0.0	4.7	2.3	0.0
80°	648.3	191.2	35.0	23.3	14.0	7.0	2.3	0.0	4.7	4.7	2.3
82.5°	177.3	70.0	25.7	18.6	11.7	7.0	2.3	0.0	4.7	4.7	4.7
85°	70.0	32.7	23.3	18.6	14.0	7.0	2.3	0.0	4.7	4.7	4.7
87.5°	32.7	23.3	23.3	21.0	16.3	7.0	2.3	0.0	4.7	2.3	4.7
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)