

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: P459406

Luminaire Tested: **GALN-SA8C-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459406
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-SA8C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 41405 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

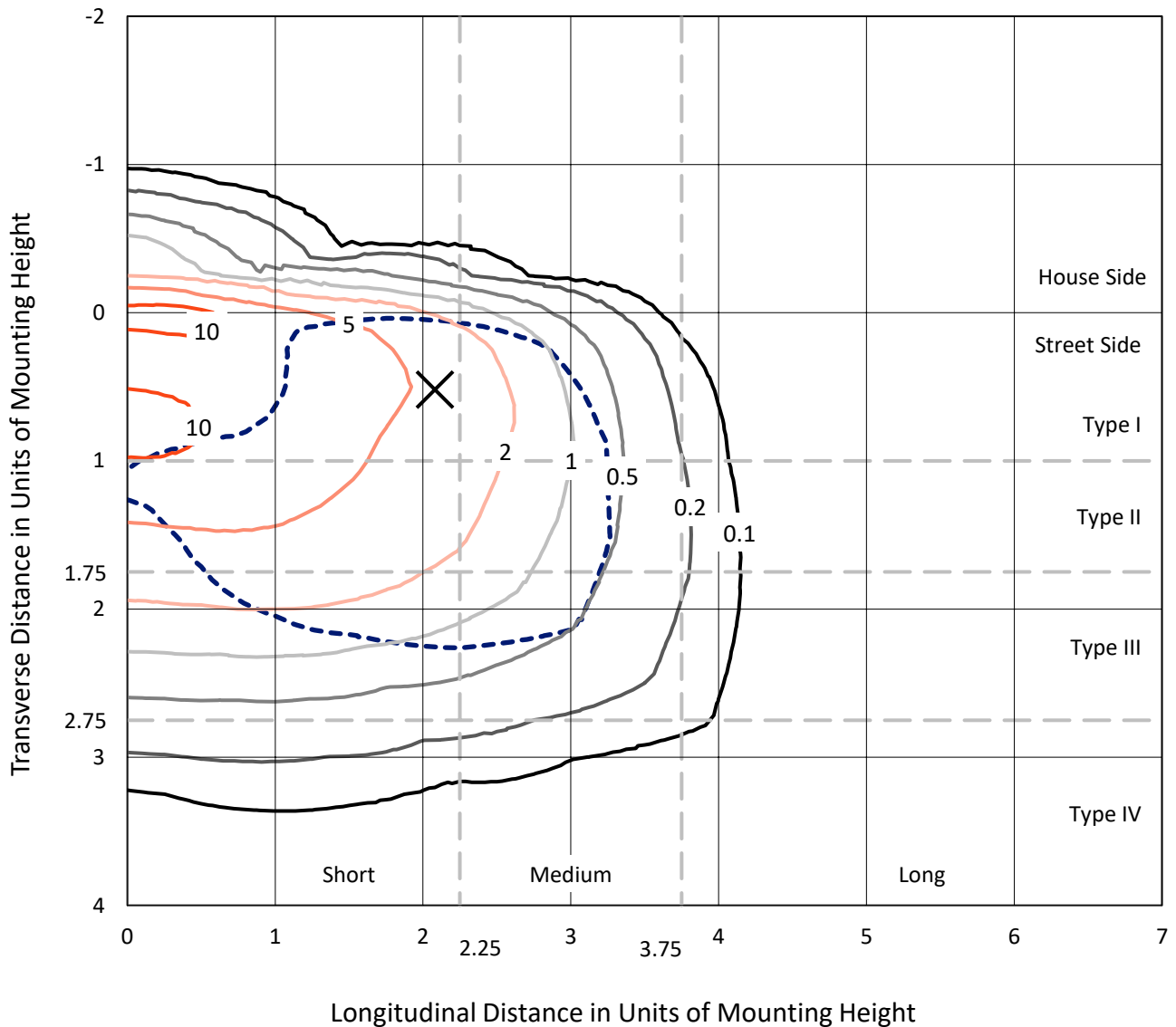
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

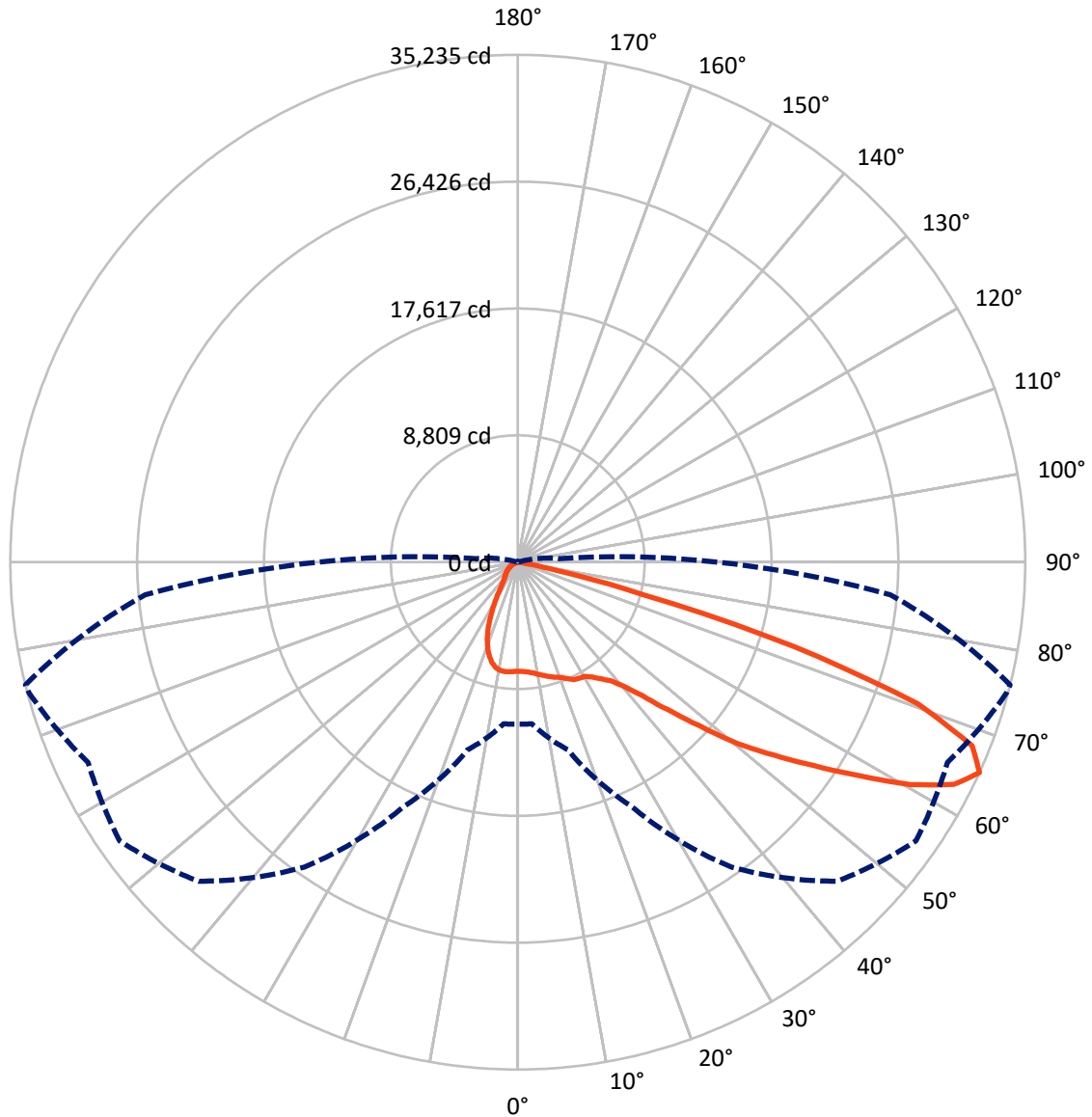
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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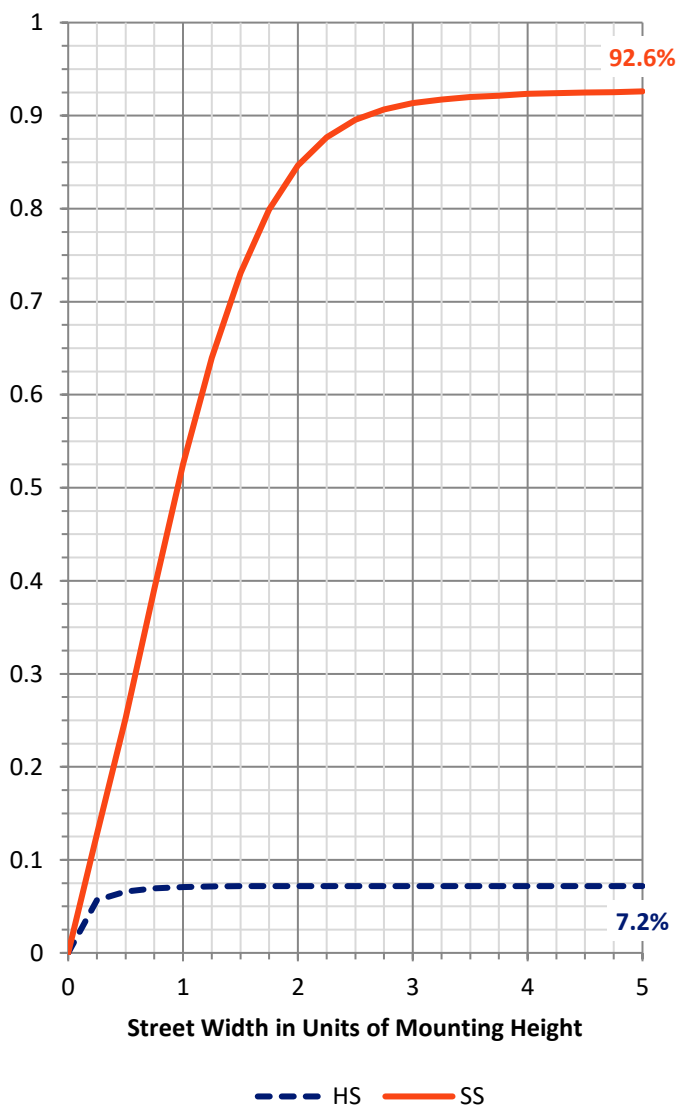
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2990.3	0.0	2990.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	38414.7	0.0	38414.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	41405.0	0.0	41405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.9	1.5
10°-20°	1389.3	3.4
20°-30°	2238.7	5.4
30°-40°	3892.5	9.4
40°-50°	6432.1	15.5
50°-60°	9936.3	24.0
60°-70°	12133.6	29.3
70°-80°	4605.0	11.1
80°-90°	153.7	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°	41405.0	100.0
0°-180°	41405.0	100.0

Coefficient of Utilization



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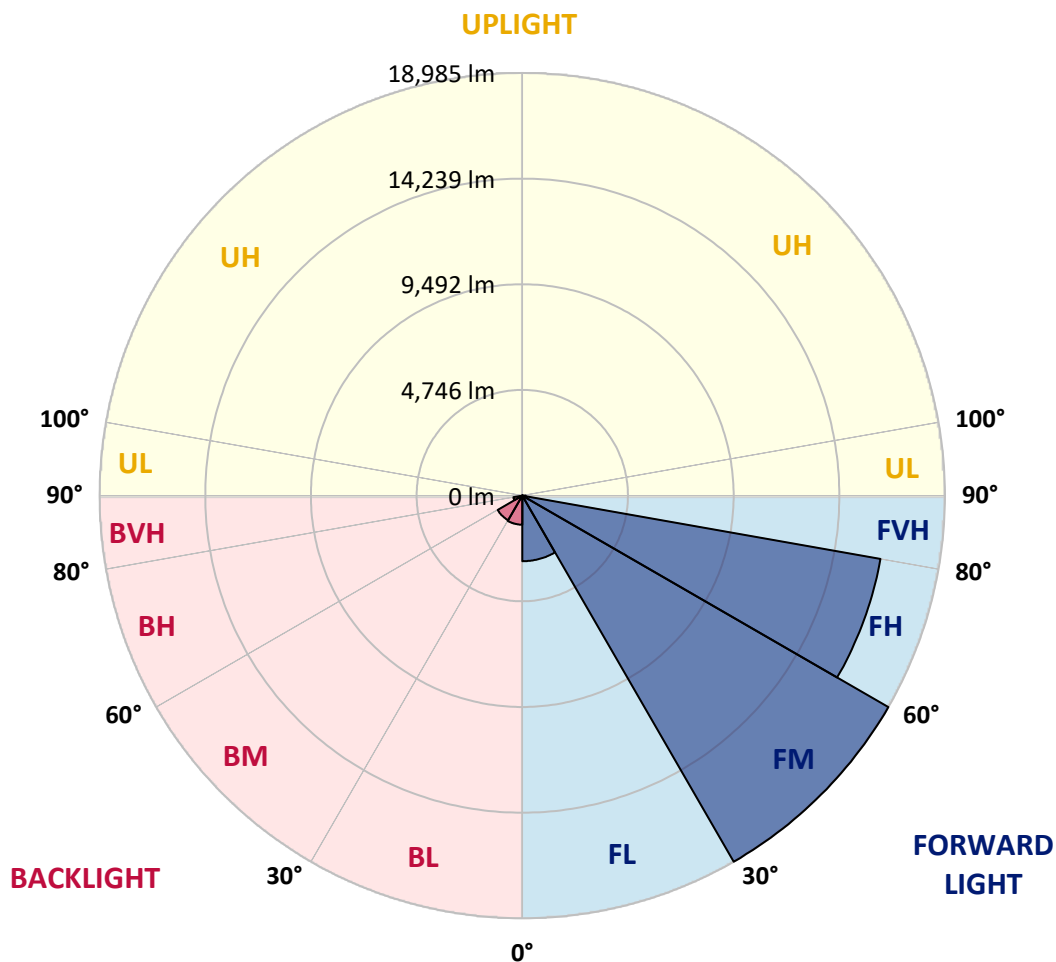
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2945.5	7.1			
FM	(30°-60°)	18984.8	45.9			
FH	(60°-80°)	16332.9	39.4			G5
FVH	(80°-90°)	151.6	0.4			G2/225
BL	(0°-30°)	1306.4	3.2	B3/2500		
BM	(30°-60°)	1276.0	3.1	B2/2500		
BH	(60°-80°)	405.7	1.0	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3
2.5°	7238.1	7241.0	7258.6	7302.4	7369.7	7425.2	7472.0	7548.0	7600.6	7606.5	7624.0
5°	6738.2	6703.1	6738.2	6852.2	6954.6	7109.5	7299.5	7489.5	7659.1	7670.8	7752.6
7.5°	6177.0	6206.2	6261.7	6378.7	6571.6	6808.4	7083.2	7422.3	7743.8	7773.1	7933.9
10°	5606.9	5671.2	5761.8	5940.2	6209.1	6516.1	6890.2	7375.5	7878.3	7919.2	8197.0
12.5°	5080.7	5109.9	5221.0	5460.7	5794.0	6226.7	6744.1	7349.2	8027.4	8077.1	8477.6
15°	4677.3	4715.3	4811.8	5028.1	5399.4	5954.8	6624.2	7340.4	8173.6	8243.7	8758.2
17.5°	4601.3	4624.7	4665.6	4811.8	5136.3	5738.5	6516.1	7337.5	8313.9	8398.7	9018.4
20°	4914.1	4893.6	4852.7	4838.1	5016.4	5571.8	6437.1	7360.9	8448.4	8544.8	9293.2
22.5°	5697.5	5723.8	5484.1	5200.6	5142.1	5545.5	6425.4	7472.0	8661.8	8775.8	9600.1
25°	7360.9	7159.2	6785.0	6106.8	5595.2	5706.3	6557.0	7735.1	8910.2	9036.0	9877.9
27.5°	9199.7	9138.3	8556.5	7439.8	6486.8	6045.4	6790.8	7936.8	8992.1	9120.7	10035.7
30°	11006.3	11079.3	10412.8	9179.2	7781.9	6673.9	7010.1	8012.8	9065.2	9199.7	10237.4
32.5°	12681.3	12769.0	12184.4	10962.4	9307.8	7761.4	7387.2	8308.0	9372.1	9509.5	10573.6
35°	13999.7	14011.4	13570.0	12596.5	10974.1	9082.7	8202.8	8825.5	9787.2	9948.0	10930.3
37.5°	15210.0	15192.4	14675.0	13836.0	12362.7	10395.3	9228.9	9421.8	10260.8	10427.4	11444.8
40°	16107.4	16119.1	15952.5	15163.2	13657.7	11608.5	10041.6	9980.2	11056.0	11316.1	12193.1
42.5°	16706.7	16814.9	16896.7	16496.2	15286.0	13102.3	11289.8	11175.8	12435.8	12652.1	13251.4
45°	17192.0	17384.9	17794.2	17773.7	16850.0	14935.2	13002.9	12769.0	14391.5	14622.4	14599.0
47.5°	17545.7	17741.6	18419.8	18829.0	18320.4	16712.6	15157.4	14955.7	16727.2	16978.6	16087.0
50°	17727.0	17960.8	18826.1	19618.3	19469.2	18425.6	17612.9	17624.6	19548.2	19790.8	17811.7
52.5°	17303.1	17607.1	19042.4	20469.0	20758.4	20065.6	19913.6	20299.5	22059.3	22266.9	19369.9
55°	15949.6	16332.5	18747.2	21194.0	22252.2	22000.8	22527.0	23114.6	24804.3	24938.8	20968.9
57.5°	15093.0	15499.4	17876.0	21810.8	24047.1	24433.0	25266.2	25695.9	27637.0	27979.0	22804.7
60°	14371.0	14689.6	17159.8	21942.4	25871.3	27409.0	28218.7	28663.1	31133.3	31355.4	24824.7
62.5°	13169.5	13534.9	15949.6	21024.4	26789.2	29791.5	31469.4	31270.6	33837.3	33992.2	26064.2
65°	11237.2	11269.4	13494.0	18718.0	25842.1	31337.9	33752.5	32919.4	35129.4	35234.7	25967.8
67.5°	8387.0	8696.8	10380.7	14713.0	21828.4	30016.5	34492.1	32963.2	34313.8	34021.5	23906.8
70°	5402.3	5639.1	7036.4	10202.4	15739.1	25049.8	32039.5	30703.5	30115.9	29467.0	19568.6
72.5°	2493.6	2797.6	4180.3	5829.1	9334.1	17843.9	26008.7	24944.6	21676.3	20074.4	12438.7
75°	1087.5	1163.5	2063.9	3075.3	4376.2	9436.4	17148.1	15484.8	9790.2	8942.4	4978.4
77.5°	663.6	713.3	1081.6	1648.7	1718.9	3595.7	9237.7	6755.8	3025.6	2669.0	1350.6
80°	450.2	505.7	786.4	862.4	587.6	1002.7	3467.0	1803.7	611.0	584.7	289.4
82.5°	219.2	277.7	581.7	482.3	254.3	321.6	1008.5	385.9	178.3	166.6	102.3
85°	32.2	55.5	327.4	315.7	114.0	76.0	178.3	96.5	61.4	58.5	46.8
87.5°	0.0	0.0	111.1	49.7	11.7	11.7	20.5	20.5	23.4	20.5	23.4
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°	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3	7574.3
2.5°	7632.8	7647.4	7591.8	7512.9	7428.1	7343.4	7223.5	7115.3	7051.0	7089.0	6995.5
5°	7770.2	7758.5	7612.3	7372.6	7053.9	6671.0	6291.0	5966.5	5861.2	5703.4	5685.8
7.5°	7960.2	7928.0	7618.1	7068.6	6349.4	5630.3	4928.7	4463.9	4197.9	3972.8	3978.6
10°	8226.2	8132.6	7550.9	6533.6	5349.7	4265.1	3370.6	2756.7	2490.7	2405.9	2338.6
12.5°	8501.0	8319.7	7363.8	5811.5	4165.7	2914.5	2049.2	1675.1	1511.4	1458.7	1452.9
15°	8746.5	8460.1	7036.4	4943.3	3028.5	1862.1	1397.3	1274.6	1254.1	1257.0	1254.1
17.5°	8989.2	8571.1	6583.3	4022.5	2058.0	1336.0	1201.5	1172.2	1181.0	1192.7	1189.8
20°	9190.9	8594.5	6004.5	3069.5	1455.8	1172.2	1128.4	1122.6	1131.3	1140.1	1140.1
22.5°	9410.1	8612.1	5317.5	2125.2	1189.8	1090.4	1067.0	1067.0	1078.7	1090.4	1093.3
25°	9573.8	8515.6	4496.1	1526.0	1049.5	1011.5	999.8	1002.7	1014.4	1020.2	1017.3
27.5°	9600.1	8243.7	3624.9	1169.3	953.0	915.0	903.3	915.0	900.4	909.1	903.3
30°	9623.5	7898.8	2742.1	985.2	865.3	806.8	789.3	771.8	760.1	745.4	742.5
32.5°	9696.6	7492.4	2002.5	885.8	783.4	719.1	678.2	628.5	590.5	578.8	575.9
35°	9728.8	7004.3	1470.4	806.8	710.4	640.2	567.1	497.0	441.4	421.0	435.6
37.5°	9851.6	6530.7	1140.1	748.4	646.1	558.4	464.8	377.1	324.5	312.8	318.6
40°	10103.0	6016.2	955.9	698.7	590.5	482.3	368.3	283.6	248.5	236.8	233.9
42.5°	10506.4	5504.6	850.7	651.9	535.0	406.3	289.4	222.2	192.9	184.2	184.2
45°	10997.5	5013.5	777.6	602.2	476.5	327.4	228.0	178.3	160.8	154.9	154.9
47.5°	11643.5	4583.7	716.2	552.5	412.2	260.2	184.2	154.9	143.2	146.2	149.1
50°	12298.4	4265.1	649.0	497.0	339.1	213.4	157.9	137.4	134.5	137.4	137.4
52.5°	12792.4	4078.0	558.4	421.0	266.0	178.3	140.3	128.6	125.7	119.9	119.9
55°	13458.9	4037.1	444.3	342.0	210.5	149.1	125.7	116.9	108.2	102.3	99.4
57.5°	14315.4	4083.9	342.0	266.0	163.7	122.8	111.1	96.5	84.8	73.1	73.1
60°	14847.5	3978.6	266.0	204.6	119.9	99.4	84.8	70.2	55.5	46.8	43.8
62.5°	14677.9	3534.3	210.5	152.0	84.8	73.1	55.5	46.8	32.2	23.4	20.5
65°	13803.9	2853.2	169.6	105.2	61.4	43.8	29.2	29.2	14.6	2.9	0.0
67.5°	12082.0	2113.6	134.5	70.2	35.1	20.5	14.6	8.8	0.0	0.0	0.0
70°	9834.0	1526.0	105.2	43.8	20.5	14.6	5.8	2.9	0.0	0.0	0.0
72.5°	6244.2	874.1	81.9	26.3	14.6	5.8	0.0	0.0	0.0	0.0	0.0
75°	2414.7	342.0	55.5	17.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	684.1	160.8	32.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	178.3	70.2	17.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	84.8	29.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.7	11.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	2.9	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)