

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: P647110

Luminaire Tested: **GALN-SA8C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36771.2 lumens
Efficiency: N/A
Efficacy: 85.7 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

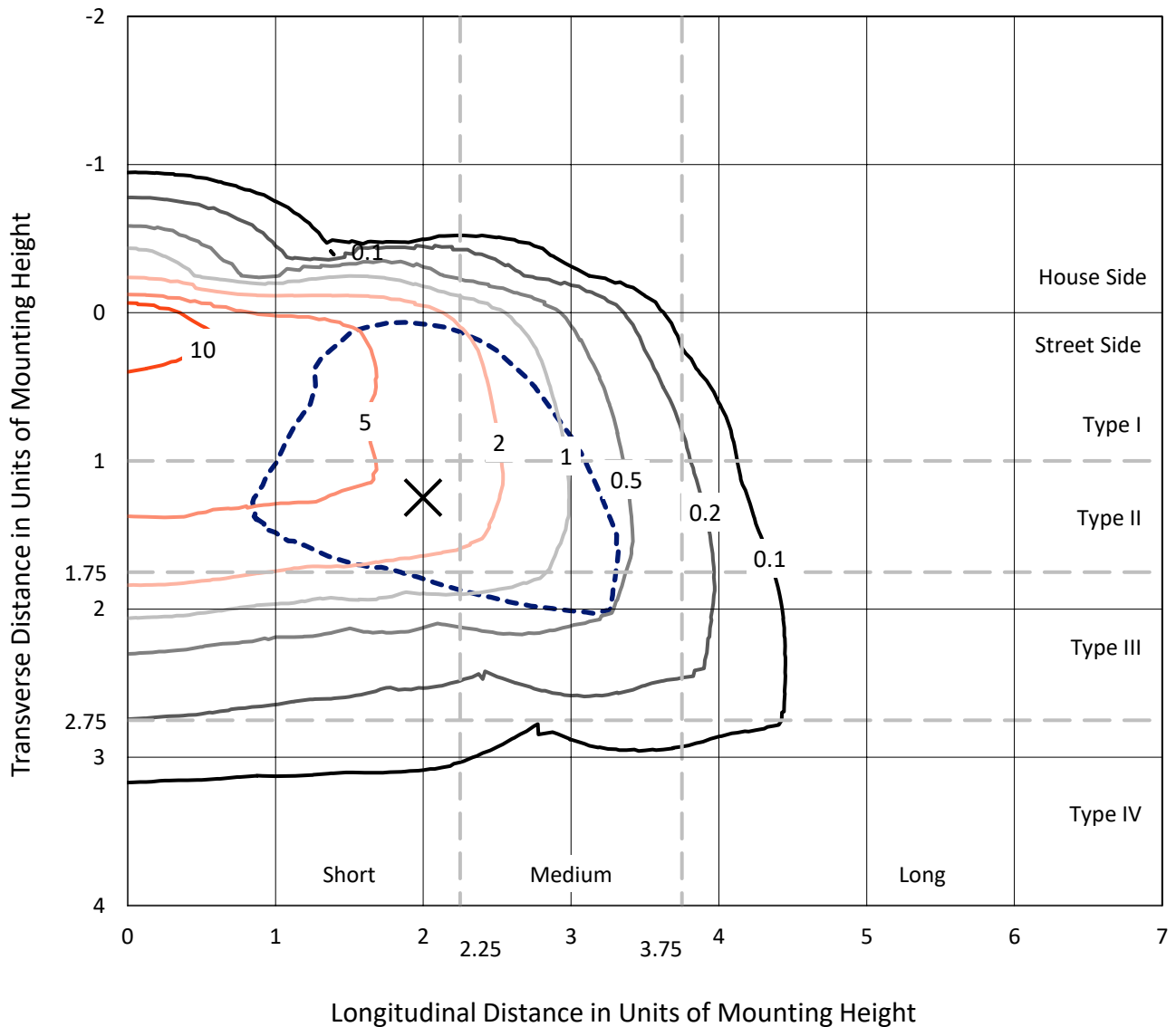
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

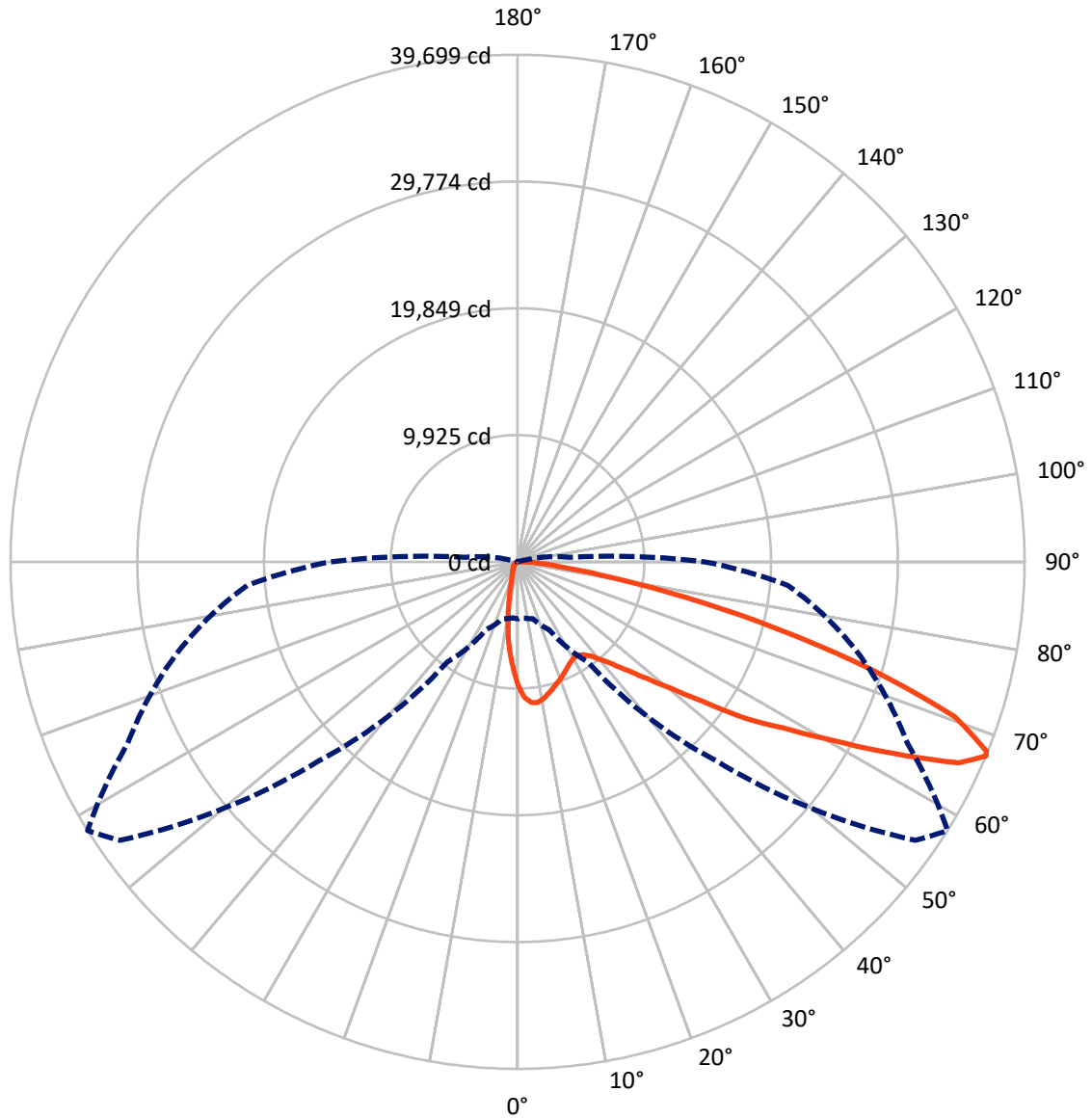
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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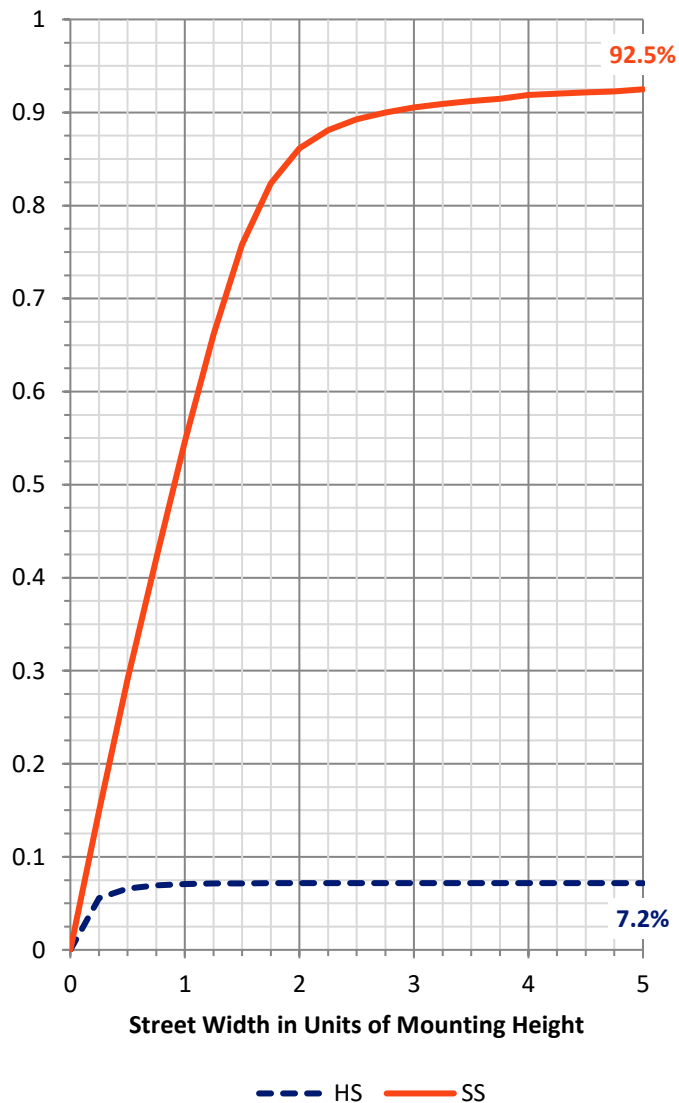
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2653.6	0.0	2653.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34117.6	0.0	34117.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	36771.2	0.0	36771.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.0	2.2
10°-20°	1708.4	4.6
20°-30°	2315.0	6.3
30°-40°	3210.7	8.7
40°-50°	5120.7	13.9
50°-60°	8851.6	24.1
60°-70°	10111.3	27.5
70°-80°	4215.5	11.5
80°-90°	447.0	1.2
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°	36771.2	100.0
0°-180°	36771.2	100.0

Coefficient of Utilization

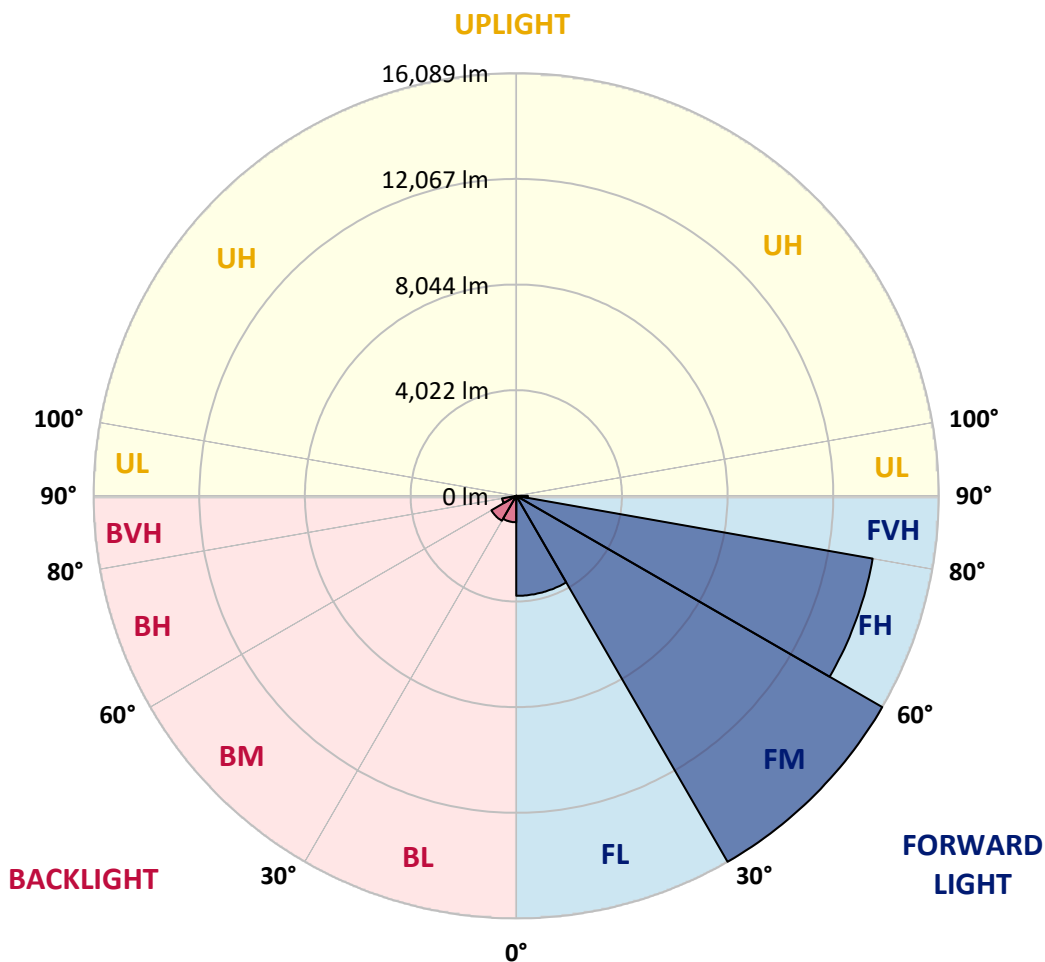


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3806.7	10.4			
FM (30°-60°)	16089.0	43.8			
FH (60°-80°)	13778.2	37.5			G5
FVH (80°-90°)	443.7	1.2			G3/500
BL (0°-30°)	1007.6	2.7	B3/2500		
BM (30°-60°)	1094.2	3.0	B2/2500		
BH (60°-80°)	548.6	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	58°	65°	75°	85°
0°	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7
2.5°	11312.9	11330.2	11266.3	11214.7	11082.0	10939.4	10750.3	10649.5	10477.5	10180.2	9850.9
5°	11578.3	11600.5	11590.6	11578.3	11526.7	11389.1	11148.4	11059.9	10806.8	10322.7	9728.1
7.5°	10988.6	11069.7	11079.5	11175.4	11266.3	11278.6	11187.7	11121.3	10887.8	10320.3	9509.4
10°	10207.2	10261.3	10339.9	10450.5	10669.2	10851.0	10939.4	10929.7	10794.5	10244.1	9253.8
12.5°	9418.5	9447.9	9568.3	9757.5	10025.4	10335.0	10570.9	10617.6	10620.1	10153.2	9040.0
15°	8740.2	8727.9	8821.4	9040.0	9416.0	9804.3	10226.8	10300.6	10418.5	10064.7	8841.0
17.5°	8160.3	8224.2	8239.0	8479.8	8826.3	9330.0	9868.1	9998.4	10234.3	9988.5	8676.3
20°	7801.6	7836.0	7868.0	8003.1	8315.1	8845.9	9531.5	9710.8	10062.3	9919.7	8492.1
22.5°	7696.0	7718.1	7691.0	7732.8	7953.9	8425.7	9165.3	9403.7	9897.6	9855.9	8342.2
25°	7777.1	7799.1	7735.3	7686.2	7762.3	8084.2	8811.5	9101.5	9764.9	9843.6	8229.2
27.5°	7973.6	8015.4	7926.9	7838.5	7794.2	7899.9	8533.8	8870.5	9674.0	9902.5	8177.6
30°	8280.8	8305.4	8239.0	8130.9	8030.1	7924.5	8388.9	8710.8	9649.5	10040.1	8172.6
32.5°	8615.0	8666.6	8629.7	8558.4	8428.2	8177.6	8430.6	8715.7	9708.4	10239.1	8234.1
35°	9027.8	9086.7	9121.2	9106.4	8939.3	8627.3	8696.1	8936.8	9865.6	10605.3	8401.2
37.5°	9433.2	9484.8	9678.9	9745.3	9597.9	9303.0	9212.1	9371.8	10212.1	11084.5	8703.4
40°	9897.6	9966.4	10239.1	10492.3	10421.0	10111.3	9944.3	10077.0	10742.9	11806.9	9276.0
42.5°	10342.3	10465.2	10880.5	11327.7	11394.1	11047.6	10937.0	10981.3	11529.2	12846.3	10074.5
45°	10973.9	11089.3	11625.0	12231.9	12544.1	12273.8	12160.7	12153.3	12607.9	14308.3	11369.5
47.5°	11885.5	11988.7	12620.2	13219.8	13775.1	13812.0	13598.1	13671.9	13964.3	16018.5	12956.8
50°	13003.5	13246.8	13662.0	14286.1	15028.3	15627.8	15694.1	15595.9	15846.5	17999.0	14863.6
52.5°	14627.7	14721.1	15102.0	15615.5	16485.4	17502.6	18291.4	18156.3	18077.7	19886.2	16790.0
55°	15839.2	15964.4	16556.6	17261.9	18537.1	19878.7	21589.0	21635.7	20642.9	21699.5	18674.7
57.5°	15473.0	15664.7	16561.5	17979.3	20783.0	23235.3	24508.1	24540.1	23016.6	23461.3	20802.7
60°	13593.3	13684.2	14969.2	16861.4	20974.7	26871.9	28648.5	28390.5	25432.1	25432.1	22682.4
62.5°	9639.6	9782.1	10824.0	13608.0	18942.6	28135.0	33607.1	33073.9	28759.1	27316.7	23802.9
65°	6160.2	6022.6	6713.1	8590.4	14111.7	26270.0	37924.4	37956.4	31889.6	28071.1	23191.1
67°	4462.3	4408.2	4607.3	5872.7	9568.3	22082.9	38015.4	39698.6	33688.3	27594.4	21235.1
67.5°	4081.4	4123.2	4268.1	5297.7	8693.6	20095.0	37602.6	39595.4	34093.7	27306.9	20527.4
70°	3093.6	3022.4	3179.6	3747.2	5211.7	12676.7	32346.6	36315.0	33589.9	24454.1	16401.8
72.5°	2275.4	2268.0	2486.7	3064.1	4012.6	6752.4	24282.1	29117.8	27442.0	18620.7	10327.6
75°	1535.8	1604.5	1953.5	2560.4	3636.6	4378.8	16554.2	21124.6	19050.7	10573.3	4221.5
77.5°	874.8	879.7	1258.1	2056.7	3265.7	3523.7	9809.1	13458.1	10084.3	3516.2	1253.2
80°	378.4	415.3	624.1	1494.0	2707.8	3120.6	5624.5	7396.1	4079.0	744.6	405.4
82.5°	140.1	164.7	275.2	919.0	1975.6	2570.2	3398.3	3531.0	1383.4	262.9	253.1
85°	0.0	4.9	100.8	430.0	1029.6	1147.5	2270.5	2093.5	611.8	125.3	164.7
87.5°	0.0	0.0	0.0	44.2	135.1	427.5	705.2	786.3	147.4	44.2	39.3
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°	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7
2.5°	9674.0	9514.3	9113.7	8713.2	8415.9	8167.7	7794.2	7590.3	7482.2	7322.5	7332.3
5°	9430.8	9106.4	8401.2	7671.4	7081.7	6506.7	5818.6	5541.0	5307.6	5174.8	5086.4
7.5°	9069.6	8590.4	7546.1	6573.1	5666.3	4661.3	3906.9	3403.2	3064.1	2938.8	2818.4
10°	8673.9	8037.5	6678.7	5329.6	4071.6	3034.7	2395.7	1933.9	1769.2	1616.8	1631.6
12.5°	8307.8	7533.8	5882.5	4206.7	2852.8	1928.9	1503.8	1314.6	1260.6	1243.3	1243.3
15°	8008.1	7052.2	5027.4	3162.4	1955.9	1385.8	1204.0	1152.4	1132.8	1127.8	1127.8
17.5°	7688.6	6595.1	4255.8	2336.8	1422.7	1159.8	1098.4	1063.9	1056.6	1051.6	1051.6
20°	7403.6	6135.7	3523.7	1739.7	1150.0	1044.3	1005.0	982.9	975.5	970.6	973.0
22.5°	7133.3	5727.7	2835.6	1314.6	1012.3	951.0	911.6	889.5	874.8	862.5	864.9
25°	6892.4	5334.6	2280.3	1076.2	911.6	857.5	818.2	786.3	754.3	739.6	737.2
27.5°	6722.9	4990.6	1776.5	921.4	820.7	761.7	712.6	673.3	631.5	609.4	604.5
30°	6582.8	4641.6	1405.5	813.3	729.8	673.3	611.8	555.3	511.1	489.0	479.1
32.5°	6491.9	4309.9	1108.2	724.9	653.6	584.8	516.0	459.5	410.4	388.2	383.4
35°	6477.2	4032.3	906.7	651.1	584.8	511.1	439.8	378.4	336.6	314.5	309.6
37.5°	6582.8	3818.5	759.3	592.2	528.3	447.2	368.6	312.0	275.2	258.0	255.6
40°	6865.4	3683.3	658.5	543.0	476.7	388.2	314.5	265.4	228.6	211.3	211.3
42.5°	7403.6	3688.2	592.2	496.3	425.1	331.8	267.9	221.1	189.2	174.5	169.5
45°	8243.9	3855.3	535.7	449.7	375.9	287.5	228.6	181.8	149.9	137.6	137.6
47.5°	9369.3	4187.1	486.6	403.0	331.8	245.7	194.1	147.4	120.4	108.1	108.1
50°	10841.2	4720.3	444.7	363.7	294.9	211.3	157.2	120.4	93.4	83.5	81.1
52.5°	12379.4	5378.8	395.6	329.3	253.1	179.4	127.8	93.4	71.3	63.9	61.5
55°	14077.3	6022.6	348.9	294.9	206.4	149.9	100.8	73.7	51.6	44.2	44.2
57.5°	15790.0	6654.1	292.4	245.7	162.2	110.6	78.6	54.0	34.4	27.0	27.0
60°	17239.7	6858.1	248.2	199.0	122.9	78.6	56.5	34.4	19.7	12.3	12.3
62.5°	17438.7	6170.0	208.8	152.4	88.5	54.0	29.5	19.7	7.4	4.9	4.9
65°	16357.6	5012.7	174.5	115.5	59.0	27.0	12.3	7.4	2.4	0.0	0.0
67°	14657.2	4064.2	142.5	86.0	41.7	17.2	7.4	2.4	0.0	0.0	0.0
67.5°	14222.3	3875.0	137.6	81.1	36.9	14.7	4.9	2.4	0.0	0.0	0.0
70°	11160.6	2902.0	98.3	49.2	22.1	9.9	0.0	0.0	0.0	0.0	0.0
72.5°	6936.7	1641.4	71.3	29.5	14.7	4.9	0.0	0.0	0.0	0.0	0.0
75°	2621.8	575.0	49.2	19.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	815.8	218.7	29.5	14.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	275.2	83.5	19.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	169.5	34.4	12.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	105.6	14.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	4.9	2.4	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)