

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: P648102

Luminaire Tested: **GALN-SA8A-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23784.4 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

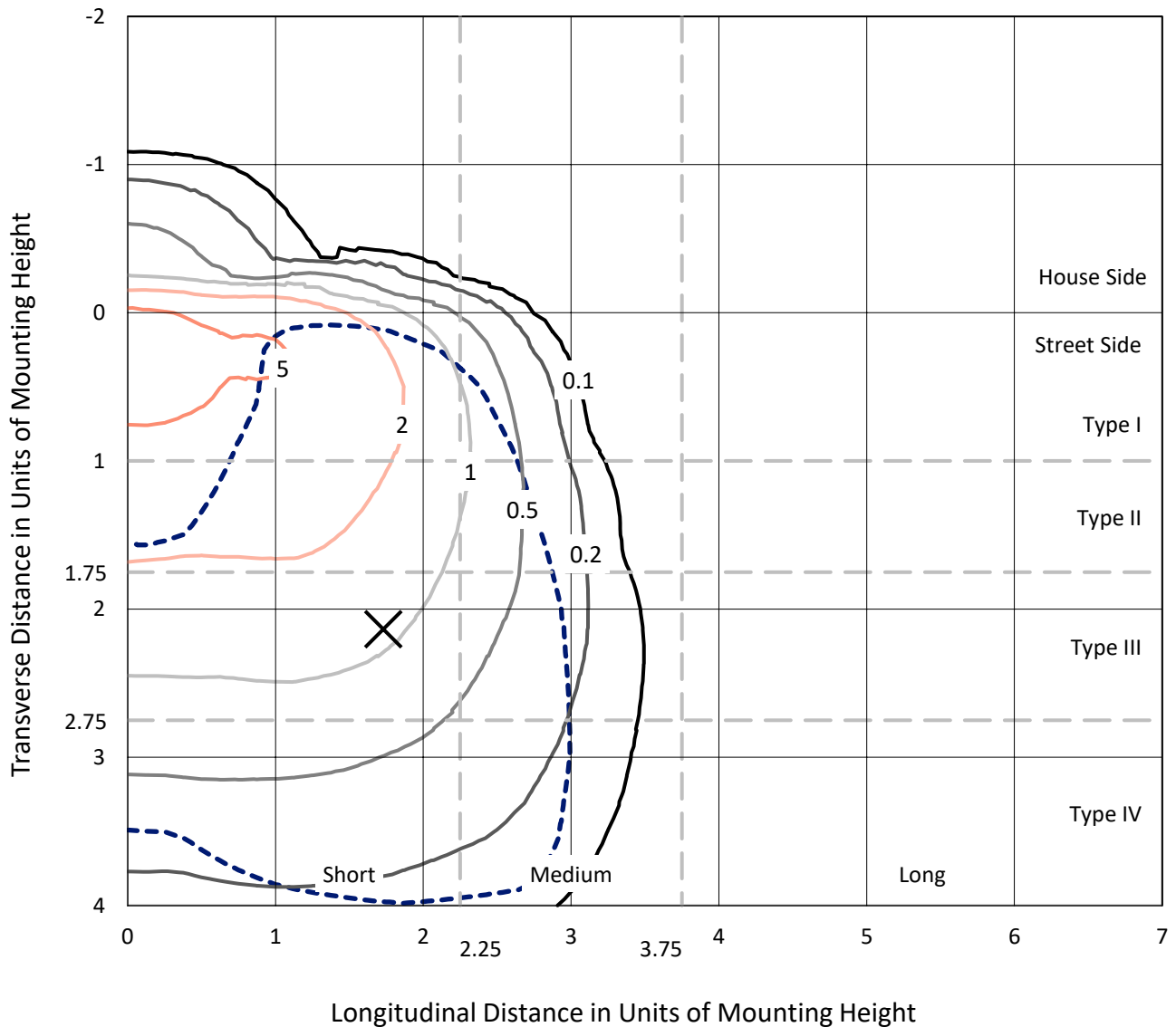
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

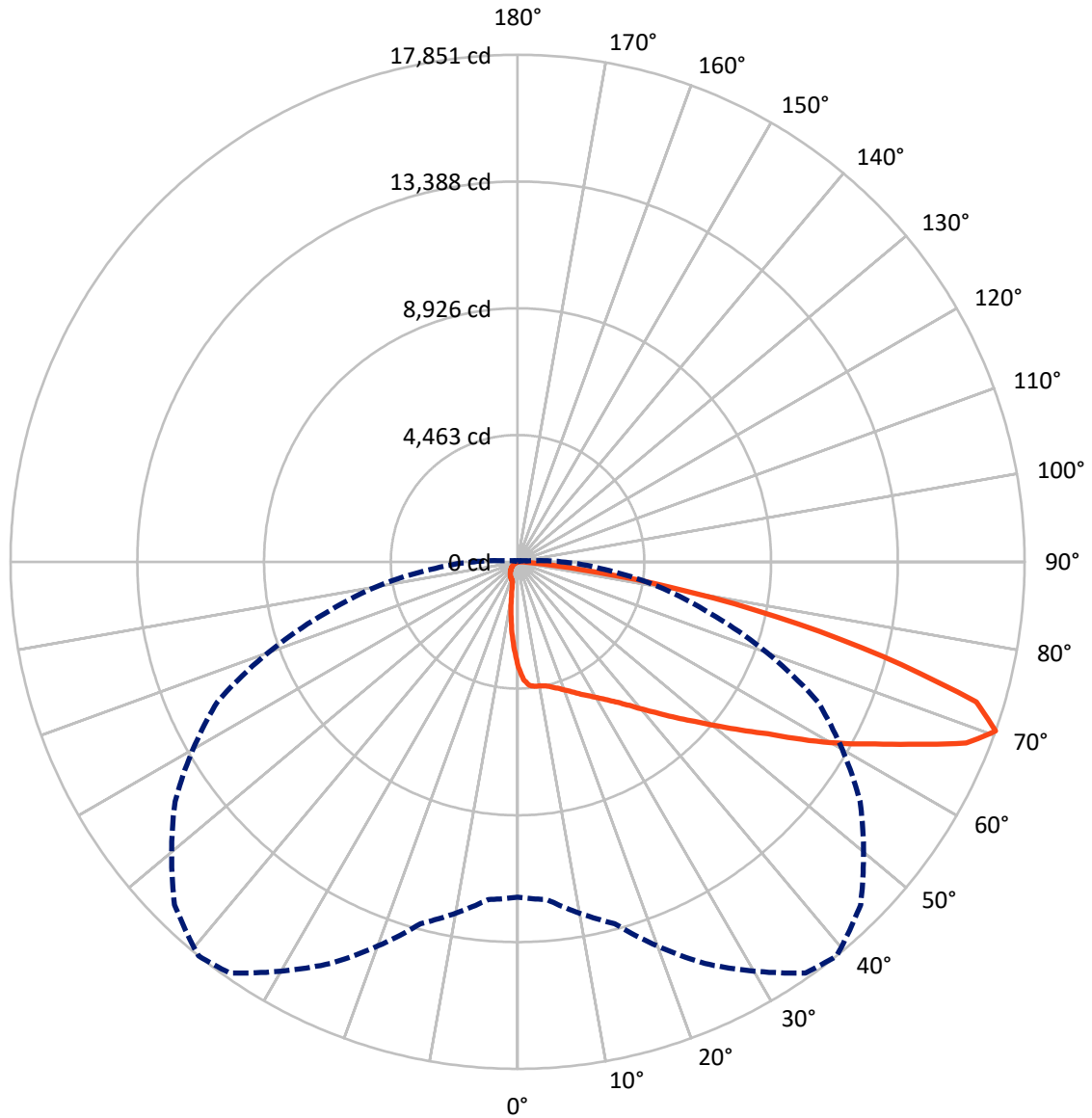
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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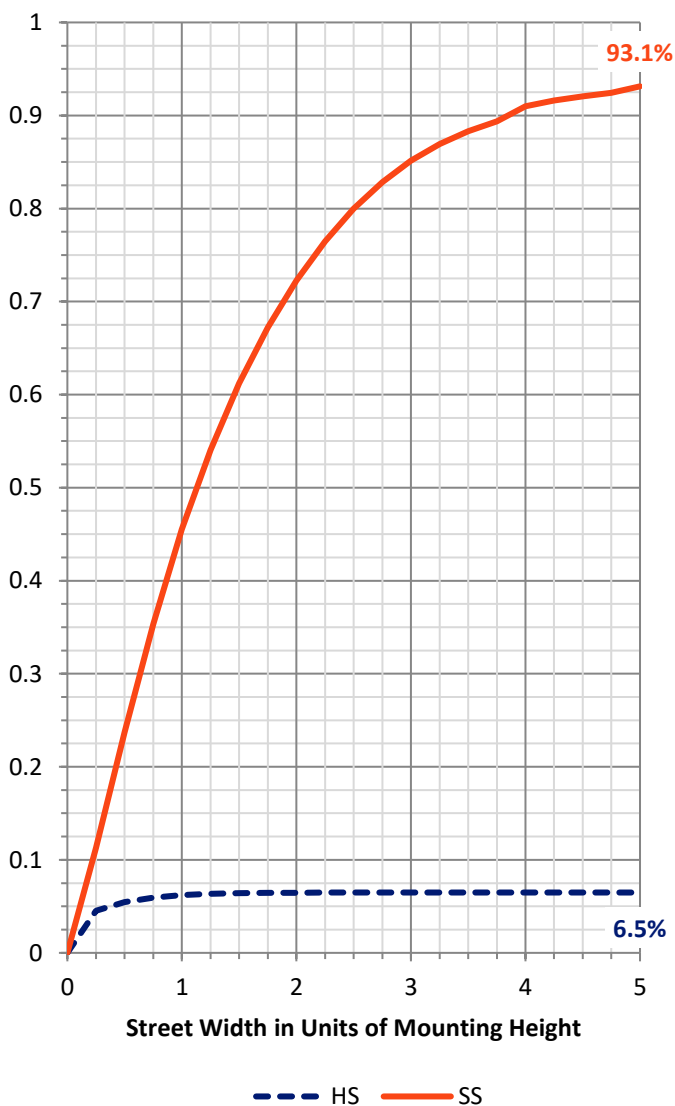
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.9	0.0	1550.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	22233.6	0.0	22233.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	23784.4	0.0	23784.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	1.3
10°-20°	822.6	3.5
20°-30°	1378.1	5.8
30°-40°	2137.2	9.0
40°-50°	3386.8	14.2
50°-60°	4964.6	20.9
60°-70°	6363.4	26.8
70°-80°	3998.6	16.8
80°-90°	416.6	1.8
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°	23784.4	100.0
0°-180°	23784.4	100.0

Coefficient of Utilization



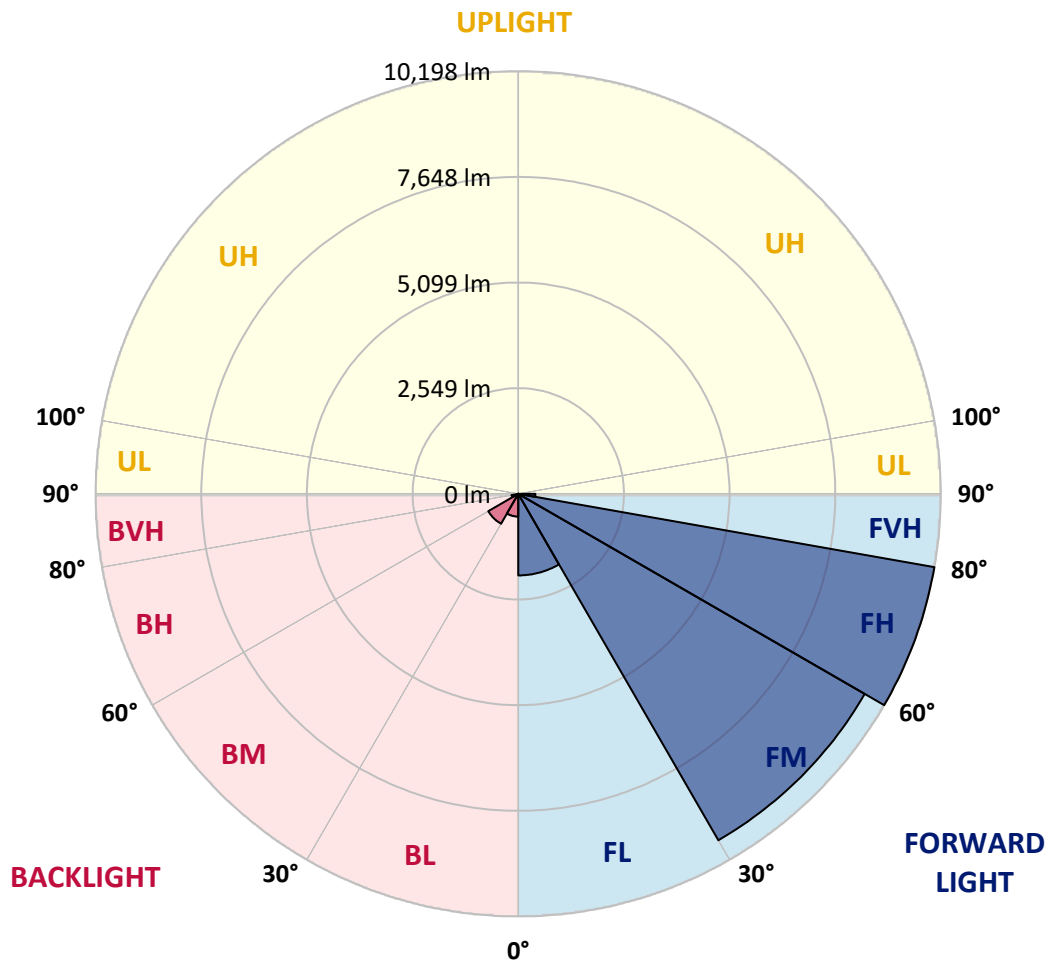
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.0	8.3			
FM (30°-60°)	9654.0	40.6			
FH (60°-80°)	10198.0	42.9			G4/12000
FVH (80°-90°)	413.5	1.7			G3/500
BL (0°-30°)	549.2	2.3	B2/1000		
BM (30°-60°)	834.6	3.5	B1/1000		
BH (60°-80°)	164.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2
2.5°	4288.2	4273.8	4254.6	4232.2	4168.3	4157.1	4118.7	4037.2	3939.7	3859.8	3749.6
5°	4491.1	4499.1	4484.7	4444.8	4398.4	4371.3	4323.3	4197.0	4070.8	3909.4	3728.8
7.5°	4537.5	4553.5	4535.9	4497.6	4452.8	4424.0	4385.7	4277.0	4129.9	3946.2	3698.4
10°	4532.7	4551.9	4540.7	4505.5	4468.7	4441.6	4400.1	4313.7	4195.5	4002.1	3708.0
12.5°	4524.7	4550.2	4548.7	4531.1	4500.8	4479.9	4454.4	4377.7	4267.4	4083.6	3760.7
15°	4502.3	4534.3	4563.1	4577.4	4579.1	4579.1	4547.1	4465.6	4360.1	4190.7	3829.4
17.5°	4511.9	4548.7	4620.6	4662.1	4691.0	4687.7	4654.2	4566.2	4449.6	4300.9	3901.4
20°	4571.1	4620.6	4721.3	4804.4	4833.1	4823.6	4778.8	4676.5	4543.9	4395.2	3971.7
22.5°	4716.5	4761.3	4887.5	4985.0	5005.8	4980.2	4916.3	4777.2	4657.4	4497.6	4056.4
25°	4933.8	4986.6	5103.3	5176.8	5176.8	5162.4	5072.9	4909.9	4785.2	4639.7	4166.7
27.5°	5197.6	5242.3	5357.4	5422.9	5384.5	5343.0	5253.5	5056.9	4937.0	4818.8	4299.4
30°	5464.5	5493.3	5614.7	5643.5	5603.5	5550.8	5454.9	5258.3	5152.8	5061.7	4491.1
32.5°	5717.0	5779.3	5880.0	5873.7	5819.3	5793.7	5705.8	5496.4	5437.3	5427.8	4759.6
35°	5969.5	6017.5	6107.0	6129.4	6081.4	6076.6	6012.7	5857.6	5859.3	5921.6	5178.4
37.5°	6186.9	6230.1	6335.6	6385.1	6394.7	6418.6	6393.1	6290.8	6436.3	6607.3	5733.0
40°	6369.1	6429.8	6564.1	6650.4	6749.5	6837.4	6842.2	6864.6	7157.1	7451.1	6457.0
42.5°	6511.3	6596.1	6791.0	6950.8	7177.8	7289.7	7379.2	7502.3	7994.6	8434.1	7310.5
45°	6696.8	6794.2	7037.2	7288.1	7642.9	7826.7	7951.4	8280.6	8979.1	9578.4	8186.3
47.5°	7003.6	7054.8	7302.5	7668.5	8135.2	8397.3	8640.2	9138.9	10035.6	10572.5	8915.2
50°	7398.4	7431.9	7619.0	8127.2	8731.3	9076.6	9519.3	10105.9	11132.0	11397.3	9327.5
52.5°	7834.7	7845.9	7986.5	8632.3	9399.4	9834.2	10329.6	11053.6	12025.4	11985.5	9600.8
55°	8341.4	8325.4	8445.3	9180.4	10190.6	10687.6	11264.6	12023.7	12800.6	12402.6	9757.4
57.5°	8921.6	8878.4	8995.0	9907.7	11203.9	11798.4	12385.0	12861.2	13401.5	12752.6	9832.5
60°	9528.9	9442.6	9581.6	10724.4	12397.8	12961.9	13449.4	13577.3	14034.4	13030.7	9703.1
62.5°	10013.2	10014.7	10273.7	11593.9	13625.2	14119.1	14378.1	14493.1	14579.5	12969.9	9022.3
65°	10769.1	10794.8	11208.6	12800.6	15046.1	15474.4	15651.9	15277.9	14603.4	12215.6	7999.4
67.5°	11549.1	11630.6	12388.2	14462.7	16687.5	17032.8	16804.2	15429.7	13951.3	10494.2	6065.4
70°	11803.3	11937.5	13185.7	15607.1	17672.1	17851.1	17077.5	14721.7	11662.6	7016.4	3052.7
72.5°	10815.5	11032.9	12727.0	15190.0	17044.0	16888.9	15279.5	12346.7	7414.4	2664.3	931.8
75°	7627.0	7722.8	10577.4	12600.7	13708.4	13268.9	11622.6	7959.4	3049.5	748.0	319.6
77.5°	3938.2	3891.8	6290.8	8360.6	9776.6	9321.1	7611.0	4120.3	1155.6	311.6	198.2
80°	2036.2	2069.8	2721.9	4380.9	5967.9	5491.6	4058.0	1910.0	615.4	172.7	151.8
82.5°	1141.1	1070.8	1564.7	1913.1	2790.6	2188.0	1556.7	1352.2	268.5	103.9	143.8
85°	207.8	217.4	858.2	1034.1	968.6	615.4	501.8	903.0	78.3	57.6	100.7
87.5°	3.2	3.2	166.2	297.3	188.6	86.3	158.2	129.4	16.0	22.4	17.6
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°	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2	3711.2
2.5°	3693.6	3632.9	3519.4	3407.5	3265.3	3148.6	3070.3	2988.8	2905.6	2912.1	2931.2
5°	3629.7	3524.2	3300.4	3063.9	2837.0	2632.4	2431.0	2250.3	2176.8	2109.7	2112.9
7.5°	3565.7	3417.1	3089.5	2718.7	2375.0	2026.6	1774.0	1566.3	1456.0	1372.9	1349.0
10°	3537.0	3340.4	2896.1	2386.2	1898.8	1518.4	1193.9	1024.5	893.4	851.9	863.1
12.5°	3549.7	3302.0	2721.9	2085.8	1505.6	1058.1	831.1	744.8	716.1	711.2	708.1
15°	3573.8	3274.8	2550.9	1753.3	1106.0	786.4	698.4	682.5	679.3	676.0	677.7
17.5°	3605.7	3250.9	2368.7	1441.7	848.7	687.2	661.7	653.7	652.1	652.1	652.1
20°	3637.7	3223.7	2165.6	1163.5	708.1	648.9	632.9	628.1	626.6	626.6	624.9
22.5°	3674.5	3199.7	1959.5	914.2	652.1	621.7	607.4	604.2	602.5	601.0	601.0
25°	3727.2	3169.3	1740.5	748.0	616.9	596.2	581.8	578.6	577.0	570.6	572.2
27.5°	3797.5	3147.0	1515.2	645.7	585.0	564.2	554.6	549.8	546.6	541.8	543.4
30°	3893.4	3127.9	1275.4	589.8	548.2	530.6	521.0	517.9	514.7	509.8	509.8
32.5°	4059.6	3135.8	1022.9	545.0	514.7	493.8	484.3	481.1	477.9	473.1	473.1
35°	4308.9	3182.2	818.3	506.7	474.7	453.9	444.4	444.4	439.5	433.2	431.5
37.5°	4716.5	3300.4	656.9	469.9	436.4	417.2	406.0	402.8	398.0	388.4	386.8
40°	5197.6	3484.2	553.0	433.2	401.1	382.0	372.4	362.8	350.0	340.4	338.8
42.5°	5801.7	3672.8	479.5	396.4	367.6	350.0	338.8	322.8	303.6	290.9	289.3
45°	6431.4	3845.5	429.9	362.8	335.7	321.3	308.5	282.9	258.9	243.0	241.3
47.5°	6901.4	3877.4	390.0	330.8	308.5	294.1	276.5	244.5	212.6	198.2	193.4
50°	7123.5	3722.4	348.4	298.9	281.3	265.3	243.0	206.2	171.0	153.5	150.3
52.5°	7201.8	3453.9	314.8	270.1	254.2	235.0	207.8	166.2	134.3	116.7	115.1
55°	7169.9	3115.0	284.5	243.0	222.1	199.8	172.7	132.6	99.1	84.7	81.5
57.5°	7002.1	2683.5	254.2	215.8	190.2	167.8	137.4	99.1	67.1	54.3	52.8
60°	6549.7	2095.3	223.8	185.4	161.5	137.4	108.7	70.3	41.6	30.4	30.4
62.5°	5785.7	1555.1	195.0	155.0	135.9	110.2	76.7	44.8	22.4	16.0	14.4
65°	4834.8	1147.6	163.0	131.1	113.5	86.3	54.3	27.2	11.2	4.8	3.2
67.5°	3373.9	708.1	135.9	107.1	92.7	62.3	33.6	11.2	4.8	0.0	0.0
70°	1532.7	337.2	103.9	81.5	70.3	44.8	17.6	6.4	3.2	0.0	0.0
72.5°	476.3	177.4	73.5	59.1	47.9	28.7	9.6	4.8	3.2	0.0	0.0
75°	220.6	113.5	46.4	31.9	27.2	14.4	6.4	3.2	1.6	0.0	0.0
77.5°	164.6	87.9	27.2	17.6	14.4	9.6	4.8	3.2	1.6	0.0	0.0
80°	143.8	44.8	16.0	11.2	8.0	6.4	3.2	1.6	0.0	0.0	0.0
82.5°	129.4	22.4	9.6	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0
85°	70.3	12.8	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	4.8	3.2	3.2	1.6	1.6	1.6	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)