

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: P531691

Luminaire Tested: **GALN-SA7A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16964 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

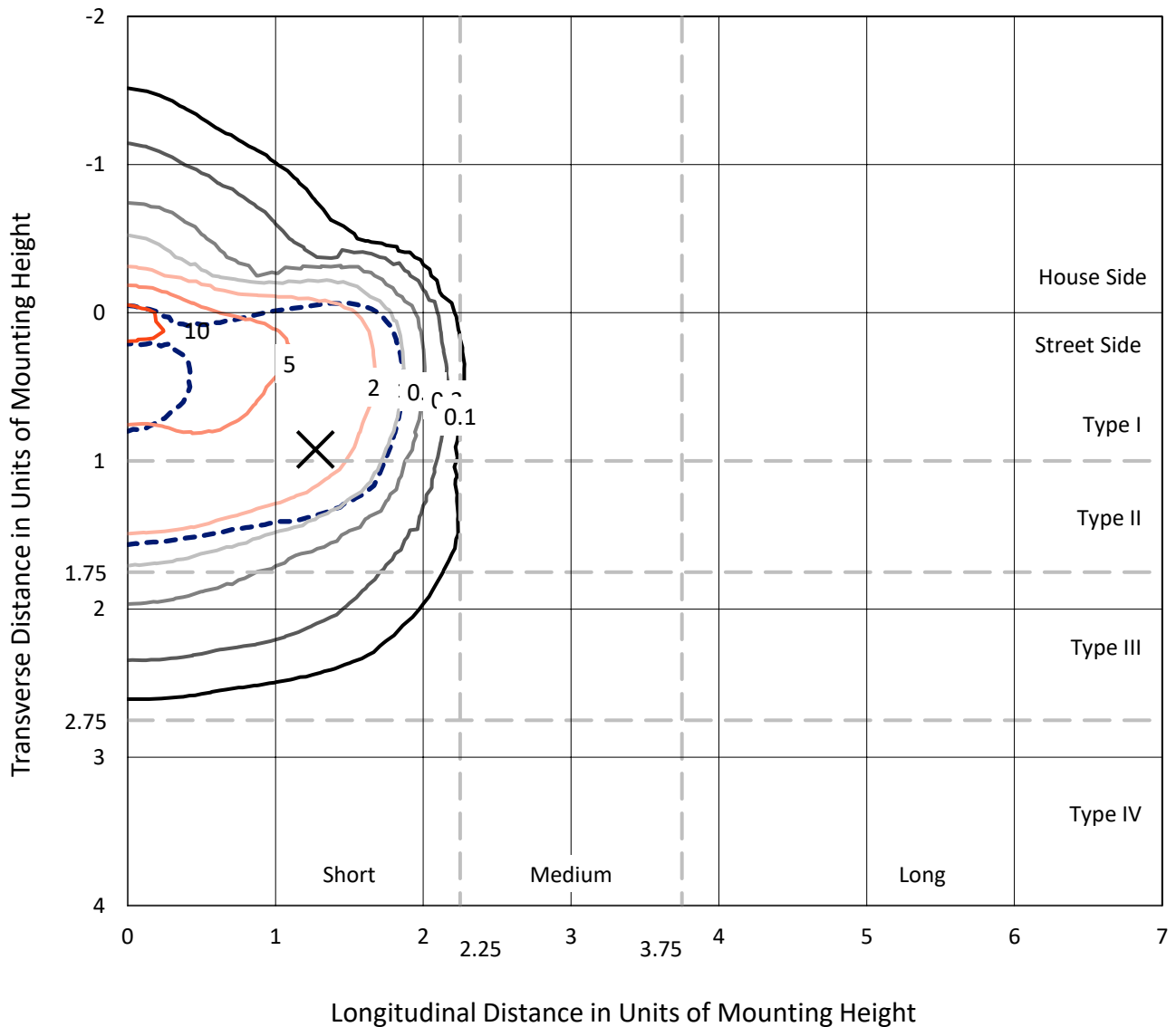
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

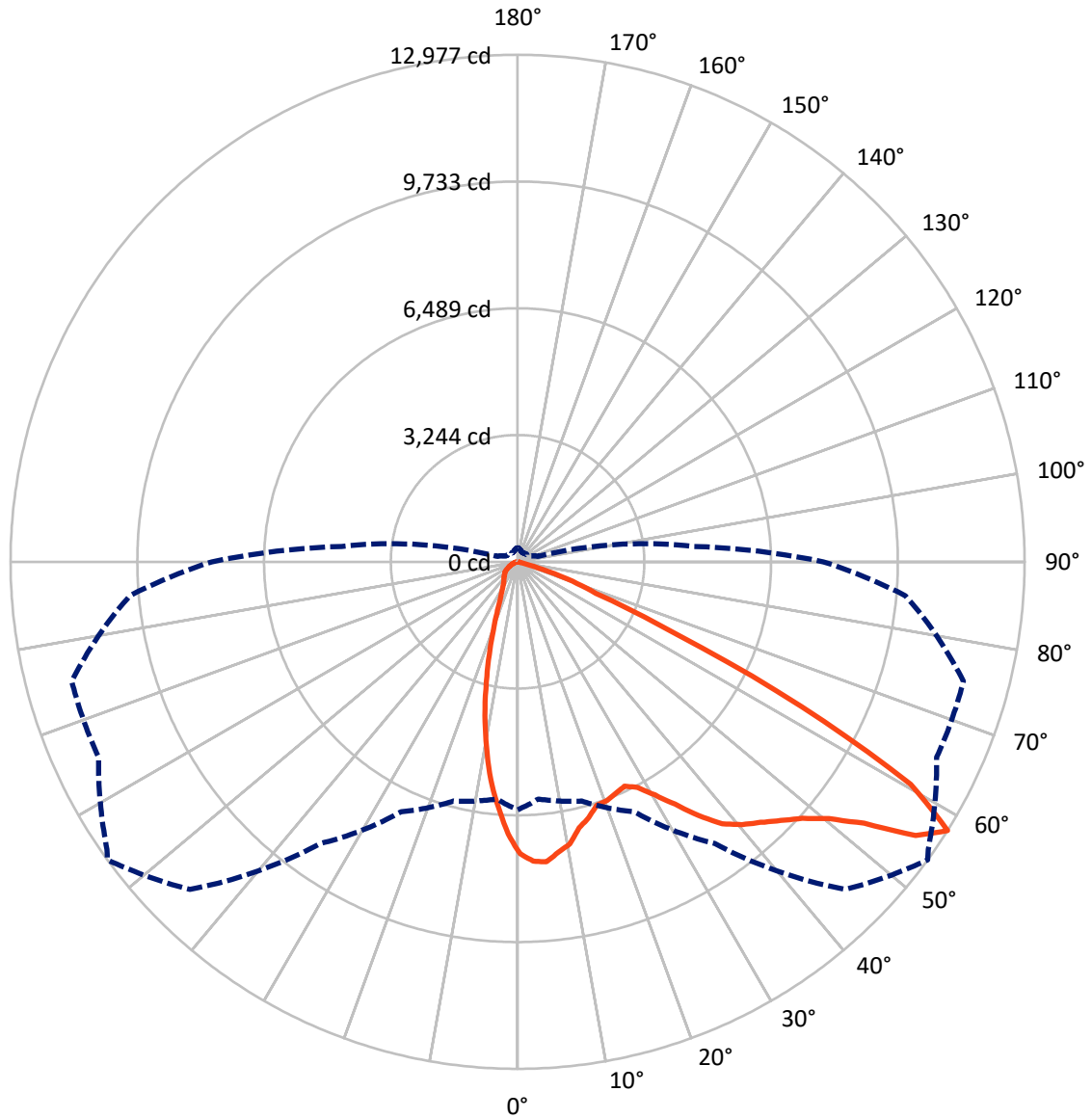
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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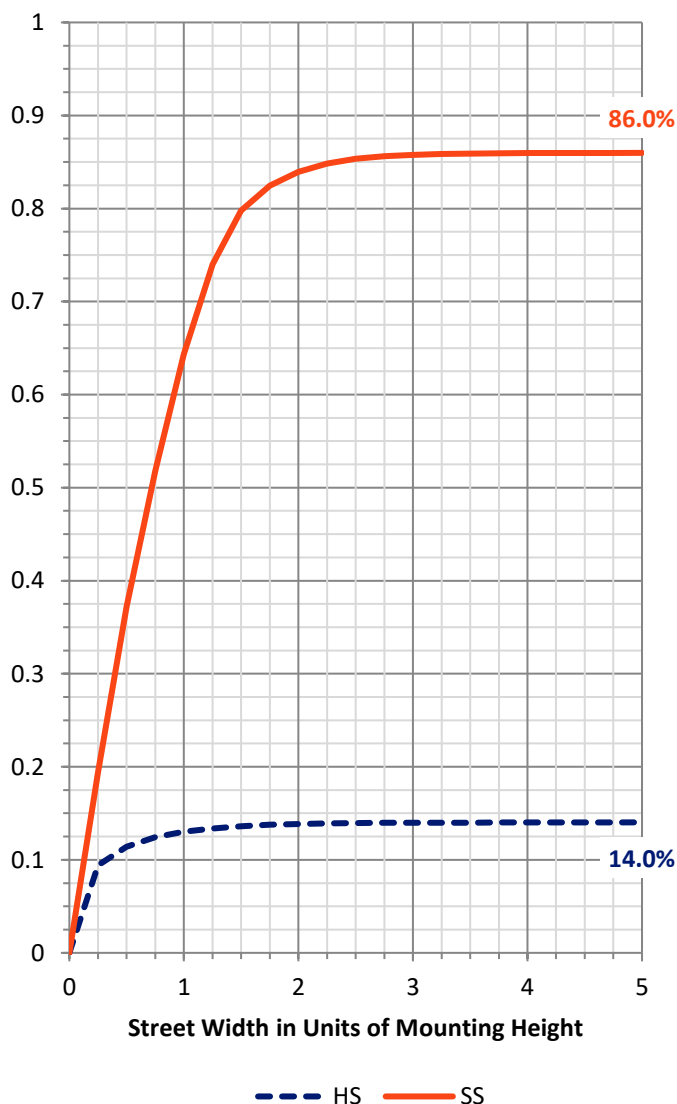
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.3	0.0	2397.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14566.7	0.0	14566.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	16964.0	0.0	16964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.3	3.7
10°-20°	1335.1	7.9
20°-30°	1769.3	10.4
30°-40°	2571.2	15.2
40°-50°	3812.8	22.5
50°-60°	4767.8	28.1
60°-70°	1880.7	11.1
70°-80°	187.3	1.1
80°-90°	14.6	0.1
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°	16964.0	100.0
0°-180°	16964.0	100.0

Coefficient of Utilization



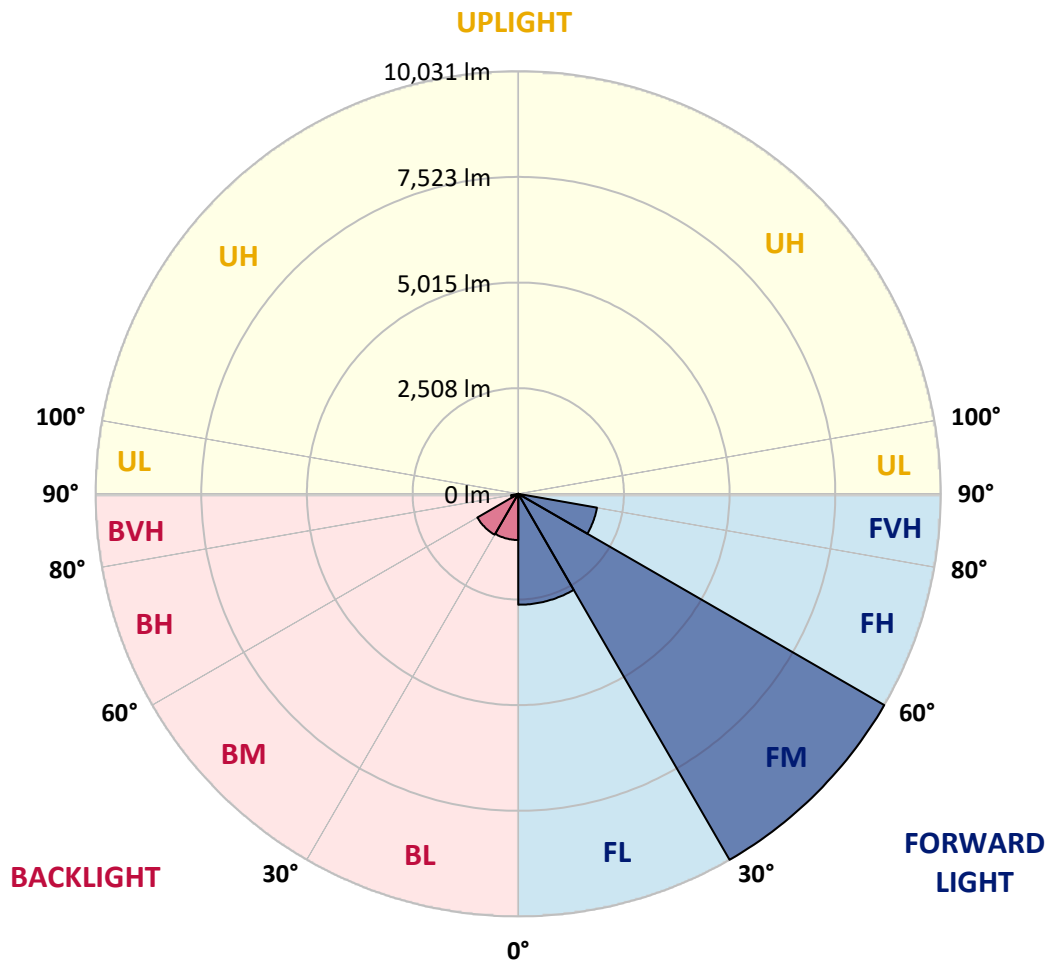
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2633.3	15.5			
FM (30°-60°)	10030.8	59.1			
FH (60°-80°)	1896.0	11.2			G2/5000
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	1096.4	6.5	B3/2500		
BM (30°-60°)	1121.0	6.6	B2/2500		
BH (60°-80°)	171.9	1.0	B1/500		G1/500
BVH (80°-90°)	8.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9
2.5°	7908.2	7826.2	7832.5	7804.1	7766.2	7794.6	7671.6	7700.0	7696.8	7529.7	7419.2
5°	7709.5	7797.8	7706.3	7782.0	7709.5	7788.3	7712.6	7655.8	7564.3	7441.3	7236.3
7.5°	7371.9	7286.8	7312.0	7406.6	7422.4	7599.0	7504.4	7577.0	7539.1	7296.2	7015.5
10°	6693.7	6674.8	6801.0	6927.2	7081.7	7271.0	7343.5	7302.5	7274.1	7182.7	6807.3
12.5°	6173.2	6226.9	6223.7	6431.9	6693.7	6801.0	6990.2	6983.9	7141.7	6971.3	6611.7
15°	5678.0	5706.4	5838.9	5968.2	6258.4	6564.4	6797.8	6829.4	7018.6	6898.8	6460.3
17.5°	5375.2	5334.2	5438.3	5592.8	5889.3	6290.0	6548.6	6624.3	6883.0	6857.8	6286.8
20°	5075.5	5075.5	5160.7	5343.6	5614.9	6066.0	6526.5	6504.5	6883.0	6810.4	6100.7
22.5°	4974.6	5025.0	5047.1	5185.9	5507.7	5895.6	6431.9	6472.9	6936.6	6788.4	6018.7
25°	5113.3	5047.1	5053.4	5163.8	5466.6	5813.6	6362.5	6454.0	7034.4	6898.8	5952.4
27.5°	5135.4	5201.7	5220.6	5296.3	5498.2	5838.9	6536.0	6722.1	7277.3	7157.4	5971.4
30°	5327.9	5394.1	5390.9	5520.3	5659.1	6043.9	6924.0	6961.9	7778.9	7482.3	6088.1
32.5°	5561.3	5630.7	5652.8	5804.2	5914.6	6419.3	7397.2	7495.0	8261.5	7993.4	6394.1
35°	5851.5	5826.3	5927.2	6078.6	6315.2	6968.2	7974.4	8138.5	8782.0	8655.8	6709.5
37.5°	6214.2	6182.7	6280.5	6526.5	6848.3	7618.0	8507.5	8614.8	9160.5	9270.9	7293.1
40°	6469.8	6482.4	6778.9	7110.1	7450.8	8236.2	8845.1	8949.1	9425.5	9845.0	7734.7
42.5°	6895.6	6974.5	7330.9	7734.7	8091.1	8699.9	9119.5	9220.4	9548.5	10305.6	8330.9
45°	7513.9	7479.2	7873.5	8324.6	8718.9	9182.6	9444.4	9409.7	9621.0	10763.0	8706.3
47.5°	8308.8	8315.1	8576.9	8961.8	9371.8	9602.1	9807.2	9684.1	9772.5	11245.6	9207.8
50°	8851.4	8898.7	9110.0	9504.3	9709.4	10062.7	10324.5	10248.8	10220.4	11535.8	9523.3
52.5°	8990.2	9132.1	9245.7	9737.8	10217.2	10775.6	11109.9	11270.8	10766.1	11633.6	9923.9
55°	7942.9	8069.1	8469.7	9144.7	10409.7	11904.9	12365.4	12368.6	11479.0	12068.9	10204.6
57.5°	6349.9	6094.4	6340.4	7056.5	8800.9	11857.5	12977.4	12829.1	11835.5	11813.4	9961.7
60°	4391.0	4327.9	4343.7	4627.6	6091.2	9431.8	11564.2	11756.6	10898.6	10239.3	7886.1
62.5°	3479.3	3425.7	3356.3	3324.8	3782.2	5876.7	8157.4	8428.7	7621.1	6640.1	4674.9
65°	2725.4	2693.9	2703.4	2829.5	2826.4	3334.2	4460.4	4350.0	3482.5	2574.0	1470.0
67.5°	1839.0	1886.4	1924.2	2305.9	2501.5	2321.7	2154.5	2091.4	1132.4	476.3	324.9
70°	1034.7	1041.0	1082.0	1441.6	1899.0	1801.2	1485.7	1485.7	564.6	173.5	186.1
72.5°	564.6	545.7	507.9	621.4	845.4	858.0	662.4	577.3	167.2	113.6	104.1
75°	274.4	271.3	233.4	192.4	183.0	151.4	116.7	107.3	75.7	72.6	63.1
77.5°	56.8	53.6	28.4	28.4	31.5	34.7	44.2	44.2	53.6	53.6	44.2
80°	0.0	0.0	3.2	12.6	22.1	31.5	37.9	37.9	44.2	44.2	34.7
82.5°	0.0	0.0	3.2	9.5	18.9	28.4	34.7	37.9	44.2	47.3	37.9
85°	0.0	0.0	0.0	6.3	15.8	22.1	18.9	18.9	15.8	12.6	6.3
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9	7472.9
2.5°	7362.5	7356.2	7211.1	7129.0	6980.8	6851.4	6747.3	6671.6	6671.6	6624.3	6580.2
5°	7154.3	7100.6	6791.5	6592.8	6312.0	6103.8	5961.9	5851.5	5678.0	5725.3	5539.2
7.5°	6895.6	6760.0	6349.9	6047.1	5659.1	5362.5	5059.7	4791.6	4532.9	4416.2	4479.3
10°	6618.0	6381.4	5829.4	5349.9	4867.3	4324.7	3971.4	3542.4	3277.5	3261.7	3192.3
12.5°	6324.7	6056.5	5384.6	4722.2	4088.2	3435.2	2895.8	2495.2	2315.4	2116.6	2154.5
15°	6103.8	5706.4	4889.4	4091.3	3249.1	2589.8	2047.2	1738.1	1567.8	1520.4	1504.7
17.5°	5864.1	5438.3	4384.7	3419.4	2548.8	1864.3	1473.1	1324.9	1258.6	1258.6	1249.2
20°	5614.9	5135.4	3883.1	2794.8	1911.6	1391.1	1179.8	1132.4	1129.3	1126.1	1126.1
22.5°	5450.9	4788.4	3428.9	2220.7	1441.6	1113.5	1025.2	1006.3	1018.9	1056.7	1056.7
25°	5277.4	4454.1	2927.3	1712.9	1116.7	955.8	905.3	917.9	949.5	984.2	971.6
27.5°	5100.7	4236.4	2454.2	1343.8	914.8	835.9	817.0	845.4	880.1	911.6	902.2
30°	5059.7	4003.0	2006.2	1018.9	785.5	728.7	741.3	766.5	801.2	813.8	826.5
32.5°	5122.8	3820.0	1643.5	835.9	684.5	668.7	668.7	681.4	703.4	731.8	722.4
35°	5302.6	3715.9	1299.6	725.5	627.7	612.0	608.8	621.4	634.0	643.5	634.0
37.5°	5577.1	3633.9	1063.0	643.5	589.9	564.6	558.3	555.2	567.8	571.0	577.3
40°	5927.2	3678.1	902.2	593.0	552.0	523.6	504.7	504.7	504.7	514.2	517.3
42.5°	6305.7	3738.0	779.1	564.6	517.3	482.6	463.7	457.4	463.7	476.3	473.2
45°	6703.2	3854.7	700.3	520.5	485.8	441.6	416.4	410.1	425.8	451.1	447.9
47.5°	7075.4	4021.9	640.4	492.1	454.2	413.2	381.7	375.4	403.8	438.5	441.6
50°	7447.6	4312.1	618.3	470.0	432.2	384.8	356.5	350.1	381.7	425.8	435.3
52.5°	7876.6	4624.4	602.5	441.6	406.9	362.8	331.2	324.9	359.6	416.4	419.5
55°	8157.4	4889.4	589.9	391.2	359.6	328.1	302.8	299.7	337.5	388.0	400.6
57.5°	7829.3	4520.3	545.7	340.7	306.0	290.2	268.1	268.1	299.7	347.0	356.5
60°	5936.7	2974.6	388.0	274.4	258.7	249.2	239.7	239.7	265.0	299.7	302.8
62.5°	3476.2	1602.5	249.2	220.8	220.8	211.3	195.6	195.6	220.8	239.7	242.9
65°	1031.5	514.2	201.9	189.3	186.1	170.3	154.6	151.4	170.3	179.8	176.6
67.5°	296.5	236.6	167.2	157.7	154.6	129.3	119.9	116.7	119.9	113.6	110.4
70°	176.6	160.9	129.3	132.5	116.7	94.6	85.2	82.0	75.7	66.2	59.9
72.5°	97.8	97.8	94.6	100.9	82.0	63.1	53.6	44.2	34.7	28.4	25.2
75°	59.9	63.1	66.2	69.4	53.6	41.0	34.7	22.1	12.6	6.3	6.3
77.5°	41.0	44.2	47.3	50.5	44.2	37.9	28.4	15.8	3.2	0.0	0.0
80°	31.5	34.7	41.0	44.2	47.3	50.5	37.9	15.8	3.2	0.0	0.0
82.5°	34.7	37.9	47.3	44.2	44.2	44.2	34.7	15.8	3.2	0.0	0.0
85°	6.3	9.5	15.8	15.8	22.1	28.4	22.1	6.3	0.0	0.0	0.0
87.5°	0.0	0.0	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)