

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: P652384

Luminaire Tested: **GALN-SA5B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13988.4 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

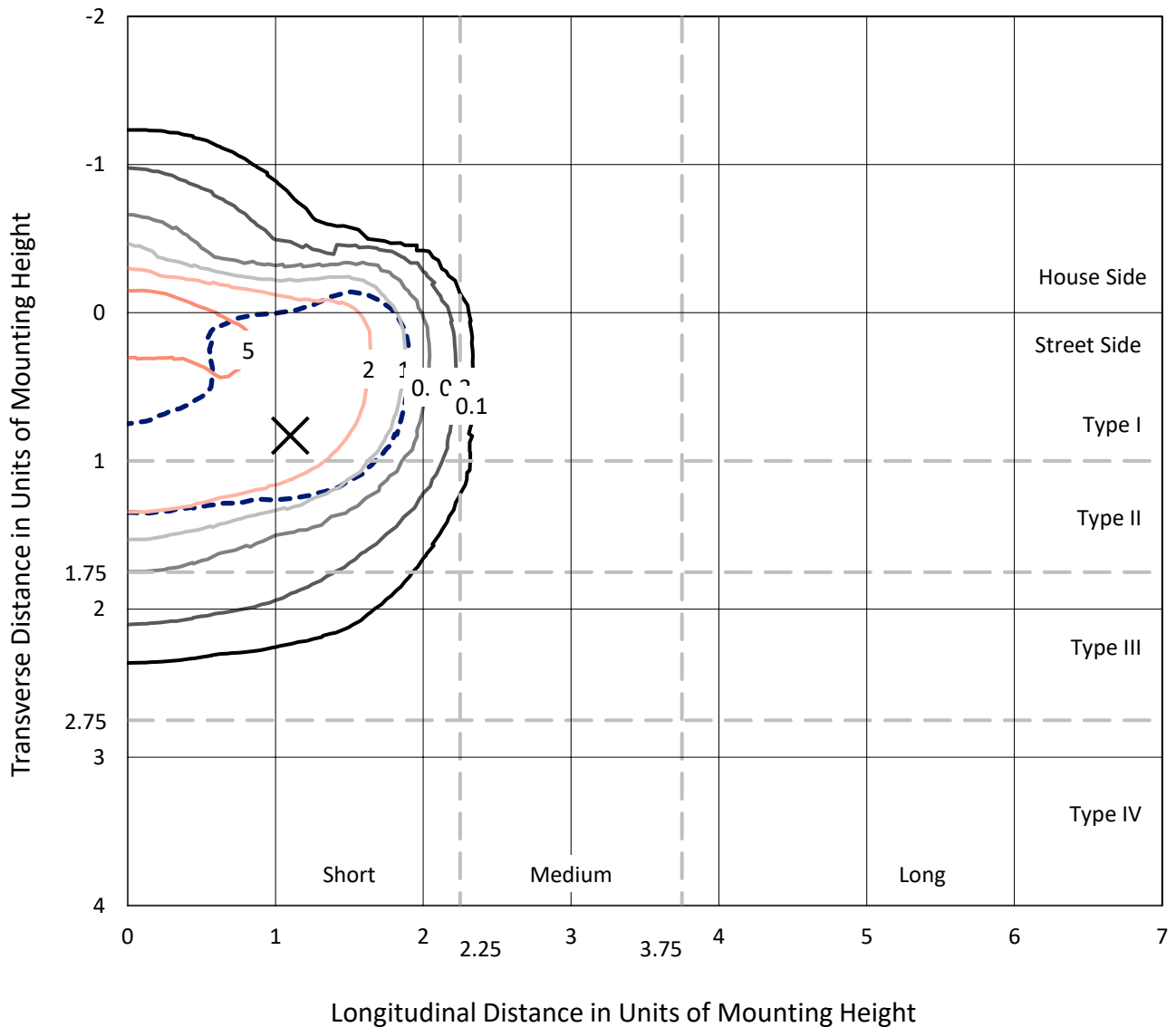
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

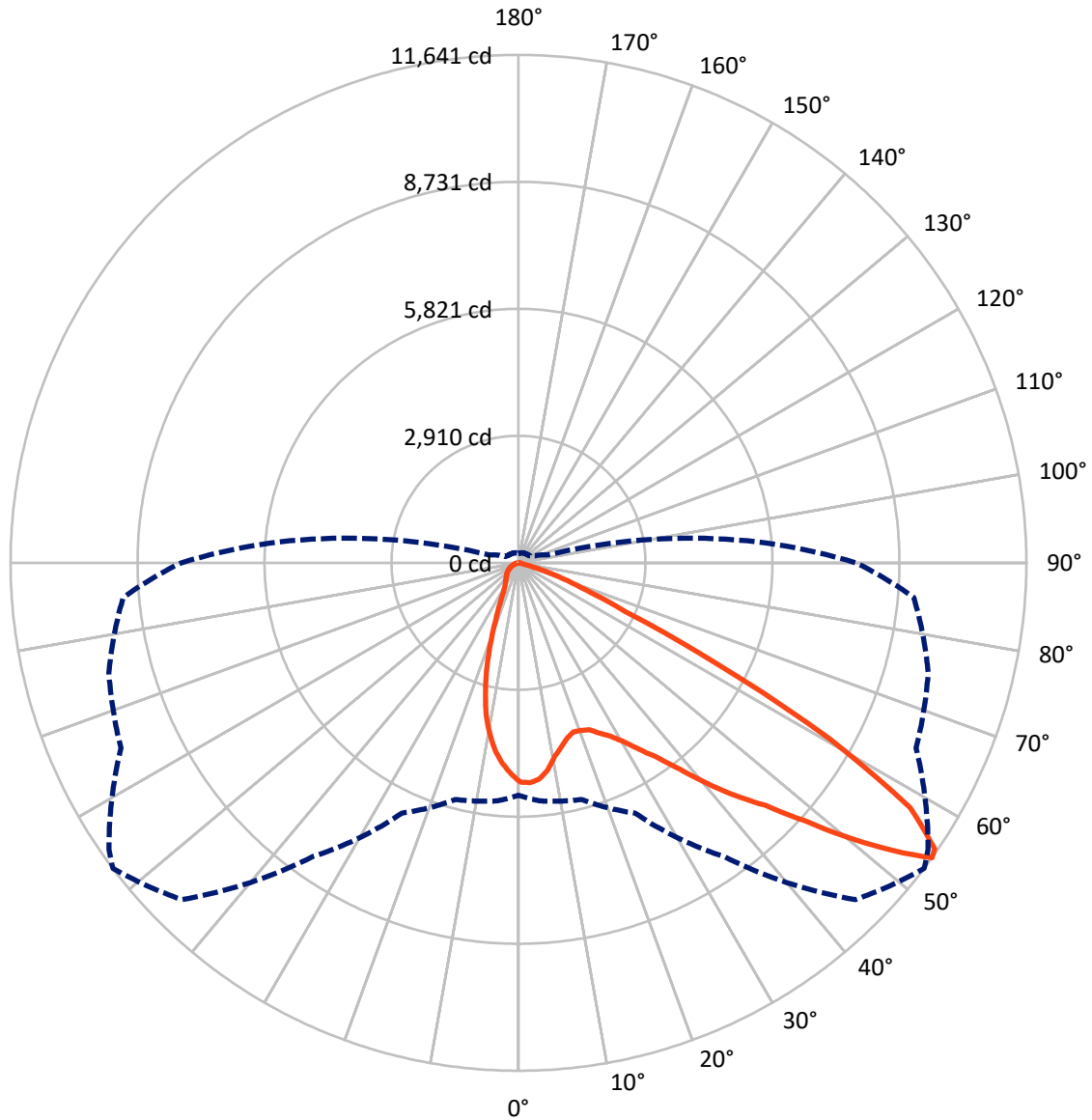
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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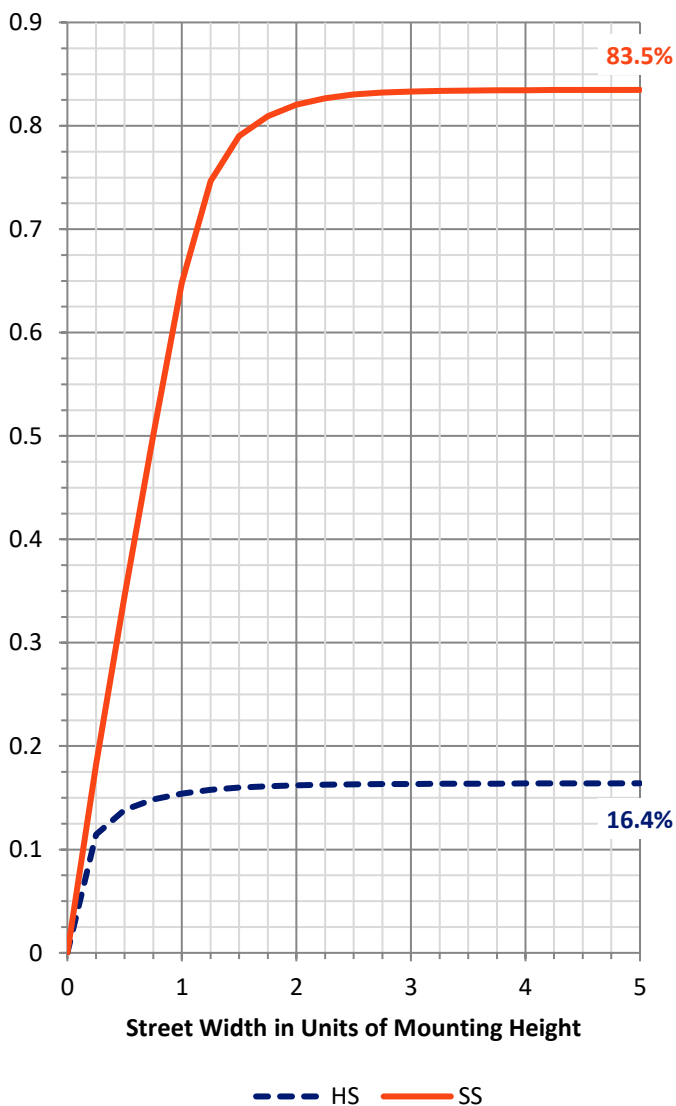
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2314.4	0.0	2314.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11673.9	0.0	11673.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	13988.4	0.0	13988.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.1	3.1
10°-20°	988.3	7.1
20°-30°	1404.6	10.0
30°-40°	2167.7	15.5
40°-50°	3398.8	24.3
50°-60°	3948.2	28.2
60°-70°	1491.8	10.7
70°-80°	141.9	1.0
80°-90°	16.0	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°	13988.4	100.0
0°-180°	13988.4	100.0

Coefficient of Utilization

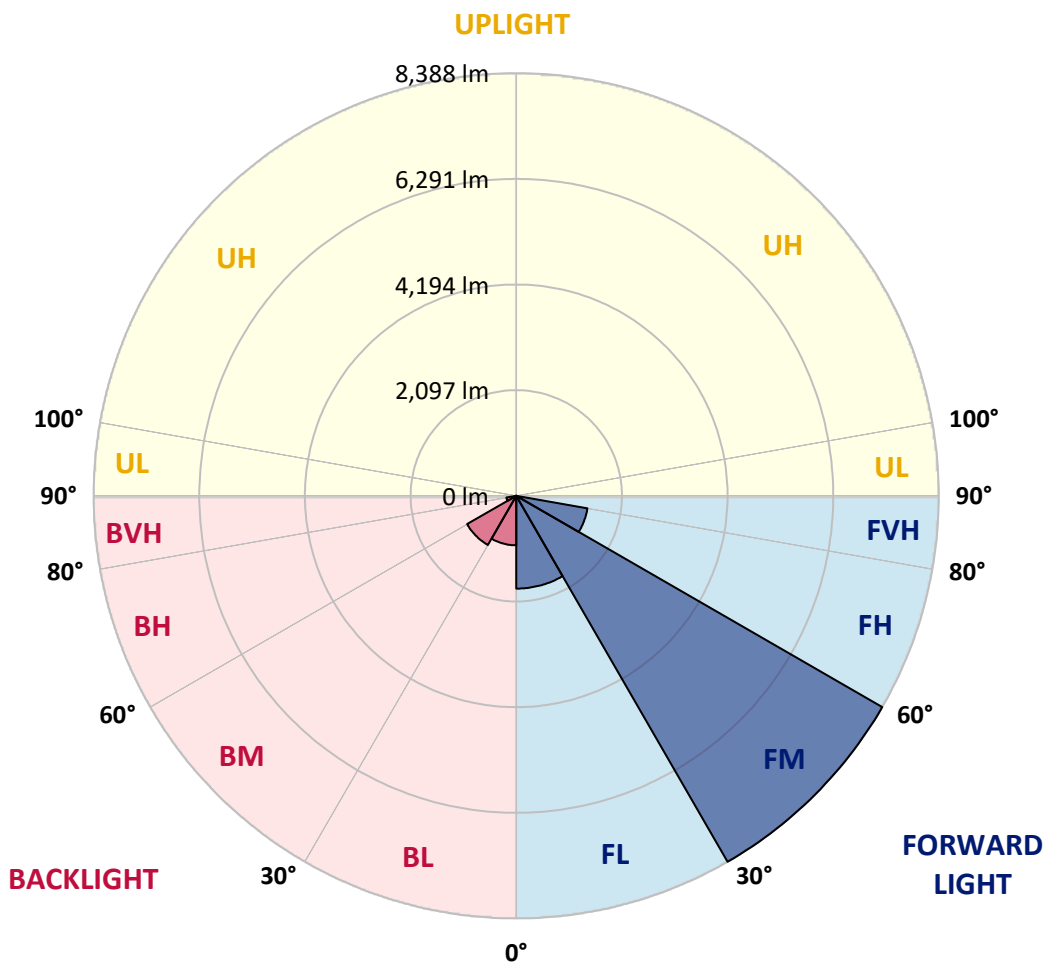


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.9	13.2			
FM (30°-60°)	8388.4	60.0			
FH (60°-80°)	1435.4	10.3			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	982.1	7.0	B2/1000		
BM (30°-60°)	1126.3	8.1	B2/2500		
BH (60°-80°)	198.3	1.4	B1/500		G1/500
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4
2.5°	4998.3	4954.0	4998.3	5003.5	5034.8	5063.5	5045.2	5087.0	5063.5	5037.4	5029.6
5°	4594.4	4654.3	4657.0	4750.7	4729.9	4901.9	4977.5	4956.6	5084.3	5076.5	5058.3
7.5°	4232.2	4208.7	4240.0	4349.4	4487.6	4685.6	4795.0	4792.4	4974.9	5105.2	5092.2
10°	3896.0	3893.4	3958.5	4044.5	4161.8	4370.3	4521.4	4597.0	4881.1	5079.1	5107.8
12.5°	3669.3	3658.9	3729.2	3799.6	3984.6	4146.1	4339.0	4375.5	4701.3	4987.9	5034.8
15°	3520.7	3544.1	3549.4	3684.9	3802.2	4015.9	4167.0	4242.6	4617.8	4914.9	5094.8
17.5°	3494.7	3525.9	3528.5	3640.6	3765.7	3945.5	4078.4	4180.0	4547.5	4951.4	5097.4
20°	3546.7	3528.5	3544.1	3614.5	3737.0	3909.0	4101.9	4135.7	4524.0	4969.6	5126.0
22.5°	3695.4	3690.1	3651.0	3708.3	3794.3	3974.1	4156.6	4208.7	4591.8	5063.5	5149.4
25°	3859.5	3888.2	3851.7	3843.9	3903.8	4081.0	4323.3	4391.1	4818.5	5232.9	5222.4
27.5°	4167.0	4138.3	4138.3	4101.9	4086.3	4172.2	4503.2	4615.2	5071.3	5451.8	5305.9
30°	4461.5	4492.8	4469.3	4482.4	4378.1	4370.3	4758.5	4896.7	5519.5	5785.3	5483.1
32.5°	4927.9	4886.3	4925.3	4891.5	4753.3	4612.6	5105.2	5248.5	6061.6	6168.4	5748.8
35°	5316.2	5298.0	5464.8	5459.6	5235.5	5097.4	5472.6	5686.3	6439.5	6627.1	6061.6
37.5°	5868.8	5834.9	6025.1	6116.3	5915.6	5709.8	5999.0	6246.6	6791.2	6994.5	6382.1
40°	6436.8	6522.8	6778.2	6929.3	6715.6	6442.1	6642.7	6718.2	7025.8	7234.3	6601.0
42.5°	7156.1	7281.2	7541.8	7672.1	7653.9	7356.7	7296.9	7294.2	7195.2	7166.5	6762.6
45°	7846.7	7799.8	8201.1	8485.2	8714.5	8628.5	7927.4	7849.3	7463.6	7268.2	6804.3
47.5°	8149.0	8133.3	8407.0	8912.6	9694.4	9801.2	8844.8	8542.5	7917.0	7695.6	7031.0
50°	7758.1	7838.9	8109.9	8670.2	9869.0	10684.7	9970.6	9564.0	8446.1	8216.7	7567.8
52.5°	6481.2	6535.8	6793.9	7505.3	9274.8	11205.8	11049.5	10814.9	9418.1	9037.6	8503.4
54°	5329.2	5475.2	5615.9	6330.0	8216.7	10916.6	11641.0	11461.2	10051.4	9720.4	9092.4
55°	4641.3	4727.3	4828.9	5540.3	7484.5	10426.6	11573.3	11588.9	10476.2	9934.1	9488.5
57.5°	3390.4	3450.4	3346.1	3661.5	5139.0	8466.9	10585.6	11007.8	11049.5	10254.6	9730.8
60°	2590.4	2616.4	2499.2	2548.7	3195.0	5811.4	8188.1	8696.3	9968.0	8962.0	8242.8
62.5°	2009.2	2014.4	2011.8	2097.9	2202.1	3419.1	5120.8	5571.6	6872.1	6363.8	5597.7
65°	1480.2	1456.8	1498.5	1759.0	1879.0	2149.9	2697.3	3025.6	3734.4	3153.2	2254.2
67.5°	959.0	966.8	1008.5	1308.2	1610.5	1649.6	1660.0	1634.0	1636.6	901.7	565.5
70°	575.9	589.0	575.9	740.1	1151.8	1183.1	1081.5	1055.5	823.5	213.7	211.1
72.5°	341.4	323.1	289.3	317.9	479.5	573.3	516.0	513.3	323.1	125.1	125.1
75°	143.3	130.3	106.8	96.5	127.7	122.4	122.4	109.4	86.0	83.4	78.2
77.5°	28.7	28.7	20.9	23.5	31.3	36.5	44.3	44.3	52.1	52.1	49.5
80°	0.0	2.6	7.8	15.6	23.5	33.9	39.1	39.1	44.3	44.3	36.5
82.5°	0.0	2.6	7.8	15.6	20.9	31.3	39.1	39.1	44.3	46.9	39.1
85°	0.0	2.6	7.8	13.0	20.9	26.1	26.1	23.5	18.2	15.6	10.4
87.5°	0.0	0.0	2.6	5.2	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4	5024.4
2.5°	5047.9	5045.2	4982.7	4881.1	4857.6	4771.6	4761.2	4709.1	4737.7	4641.3	4630.9
5°	5006.1	4974.9	4899.3	4834.2	4643.9	4508.4	4401.5	4271.3	4195.7	4208.7	4159.2
7.5°	5066.1	4985.3	4852.4	4625.7	4393.7	4156.6	4028.9	3763.1	3666.7	3523.3	3502.5
10°	5003.5	4943.6	4737.7	4362.4	4041.9	3700.6	3400.8	3106.4	2882.3	2785.8	2765.0
12.5°	4998.3	4894.1	4550.1	4133.1	3669.3	3179.3	2744.1	2376.7	2155.1	2030.1	2001.4
15°	4917.5	4792.4	4339.0	3778.7	3137.6	2527.8	2053.6	1699.2	1529.7	1456.8	1477.6
17.5°	4925.3	4737.7	4127.9	3403.4	2613.8	1855.5	1402.0	1219.6	1175.3	1193.5	1193.5
20°	4917.5	4615.2	3872.6	2970.8	2001.4	1287.4	1029.4	964.2	992.9	1050.2	1037.2
22.5°	4875.9	4557.9	3638.0	2514.8	1472.4	953.8	826.1	828.7	873.0	943.3	959.0
25°	4907.2	4430.2	3340.9	2053.6	1073.7	760.9	716.6	734.9	781.8	833.9	844.4
27.5°	4883.7	4339.0	3030.8	1594.9	784.4	654.1	651.5	672.4	693.2	732.3	732.3
30°	4909.8	4255.6	2725.8	1185.7	646.3	599.4	589.0	604.6	625.5	633.3	630.7
32.5°	5006.1	4193.1	2374.1	886.1	570.7	547.2	547.2	547.2	544.6	555.1	557.7
35°	5217.2	4203.5	2064.0	685.4	521.2	502.9	495.2	484.8	479.5	484.8	487.4
37.5°	5446.6	4198.3	1743.4	583.7	484.8	469.1	450.9	435.2	432.6	437.8	430.0
40°	5548.2	4247.8	1446.4	523.8	450.9	432.6	403.9	390.9	393.5	398.7	393.5
42.5°	5686.3	4263.4	1253.5	476.9	419.6	390.9	372.6	357.0	354.4	362.2	359.6
45°	5683.7	4174.8	1050.2	450.9	390.9	359.6	336.1	323.1	323.1	328.3	330.9
47.5°	5850.5	4161.8	901.7	427.4	370.0	338.8	310.1	299.7	297.1	297.1	291.9
50°	6238.8	4344.2	787.0	401.3	344.0	315.3	291.9	278.9	268.4	263.2	260.6
52.5°	6997.1	4912.3	698.5	370.0	315.3	291.9	271.1	260.6	247.6	234.6	231.9
54°	7732.0	5498.7	693.2	344.0	291.9	276.3	258.0	252.8	237.2	218.9	213.7
55°	8063.0	5840.1	711.4	323.1	276.3	265.8	250.2	245.0	229.3	208.5	205.9
57.5°	8336.6	5973.0	701.1	268.4	250.2	247.6	234.6	226.7	208.5	179.8	174.6
60°	6710.5	4516.2	502.9	237.2	229.3	224.1	213.7	208.5	185.0	153.7	151.1
62.5°	4240.0	2598.2	320.5	208.5	200.7	192.8	179.8	174.6	153.7	122.4	114.6
65°	1806.0	1076.3	216.3	185.0	172.0	158.9	148.5	140.7	122.4	91.2	88.6
67.5°	469.1	383.1	179.8	161.6	143.3	125.1	117.2	104.2	83.4	62.6	60.0
70°	211.1	192.8	151.1	135.5	114.6	96.5	86.0	73.0	54.7	41.7	39.1
72.5°	125.1	122.4	114.6	101.6	86.0	73.0	62.6	49.5	36.5	23.5	23.5
75°	78.2	75.6	78.2	70.4	60.0	54.7	46.9	33.9	20.9	10.4	10.4
77.5°	46.9	46.9	46.9	44.3	41.7	41.7	33.9	20.9	10.4	2.6	2.6
80°	36.5	36.5	39.1	36.5	36.5	36.5	28.7	15.6	5.2	0.0	0.0
82.5°	36.5	39.1	44.3	41.7	36.5	31.3	26.1	15.6	5.2	0.0	0.0
85°	10.4	7.8	13.0	18.2	26.1	23.5	18.2	13.0	5.2	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6	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)