

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: P529388

Luminaire Tested: **GALN-SA4C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22089 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

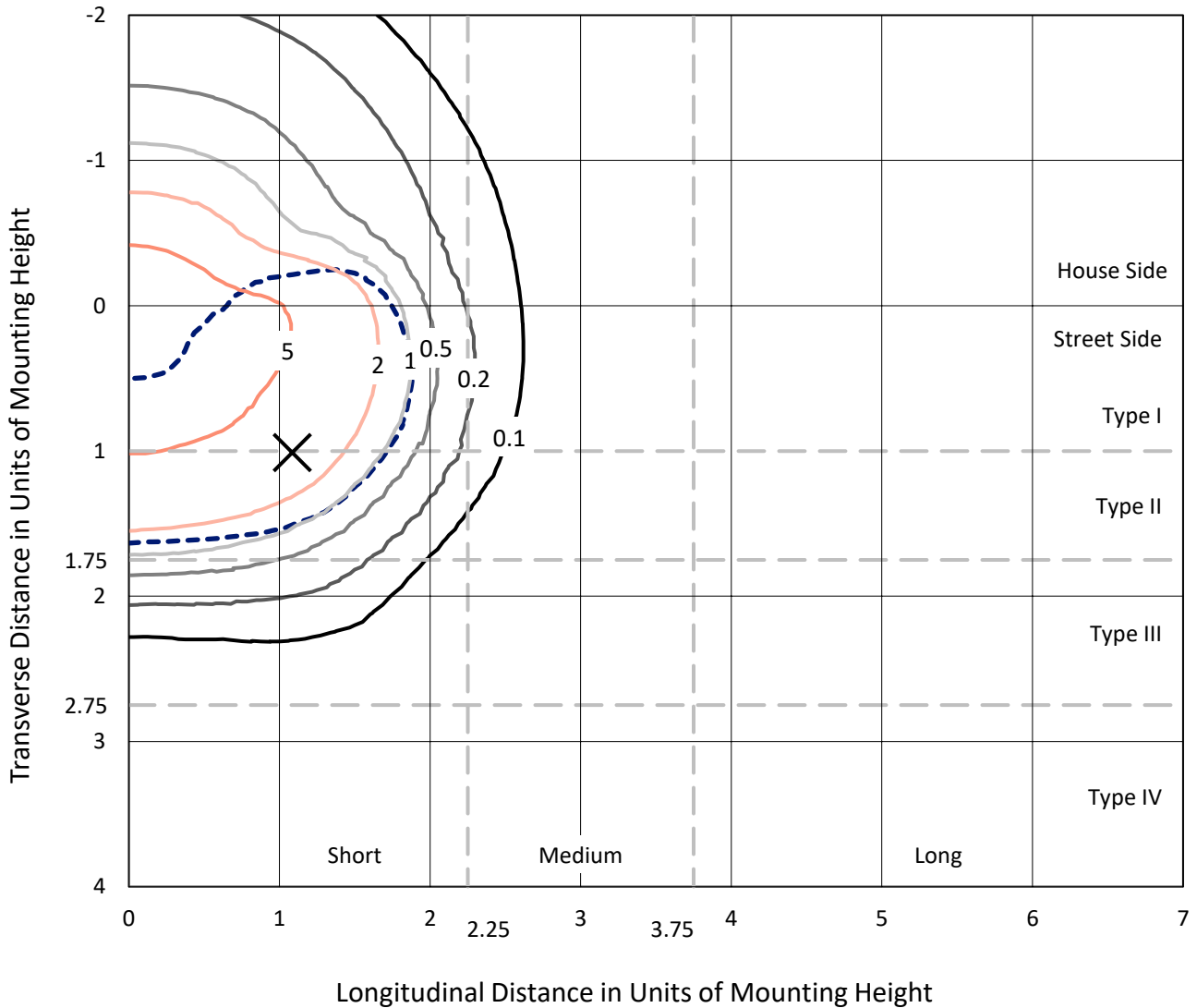
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

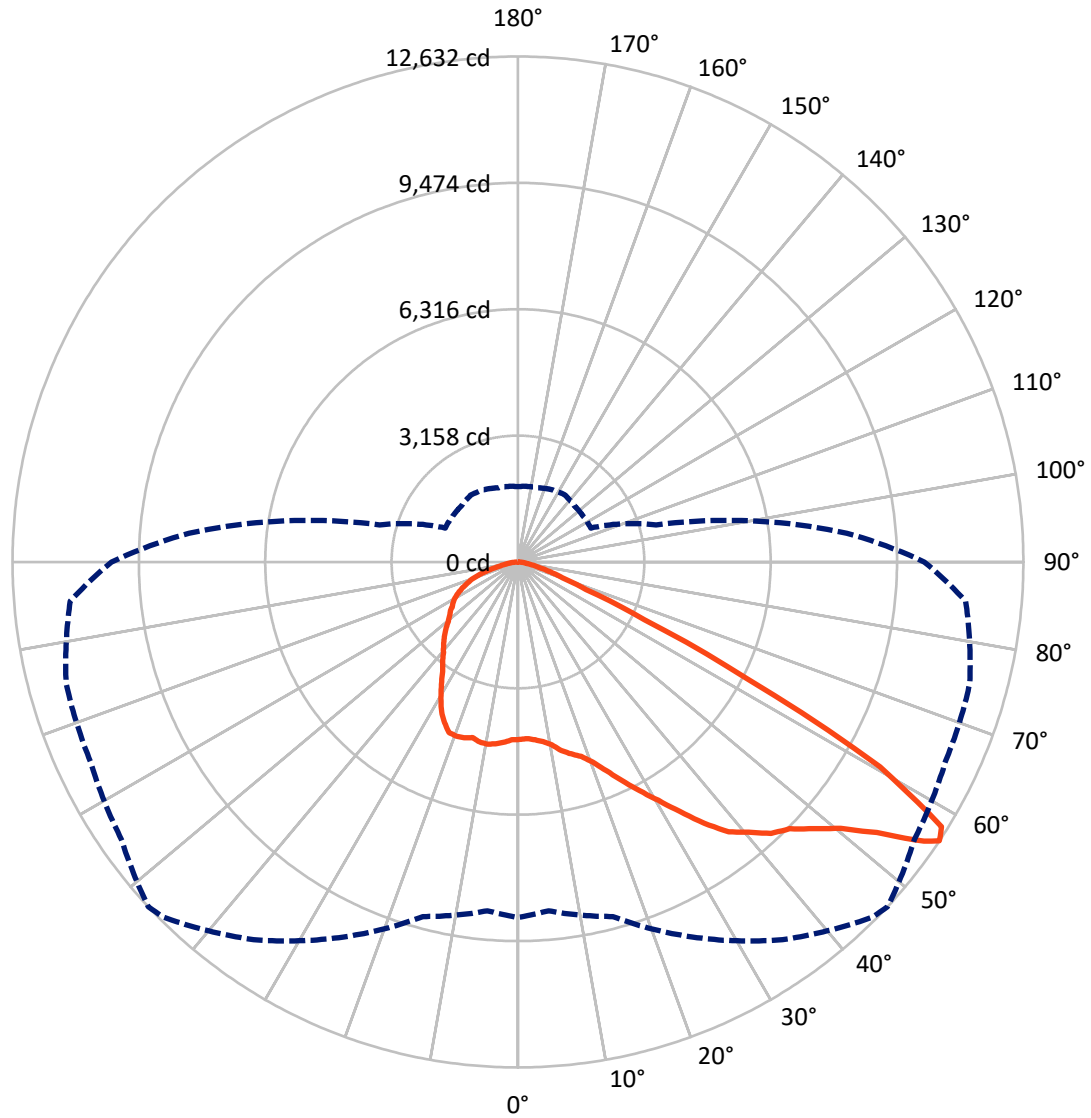
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6999.7	0.0	6999.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	15089.3	0.0	15089.3
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	22089.0	0.0	22089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.3	2.0
10°-20°	1363.8	6.2
20°-30°	2410.8	10.9
30°-40°	3621.0	16.4
40°-50°	4969.4	22.5
50°-60°	5920.4	26.8
60°-70°	2533.6	11.5
70°-80°	717.0	3.2
80°-90°	120.7	0.5
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°	22089.0	100.0
0°-180°	22089.0	100.0

**Coefficient of Utilization**



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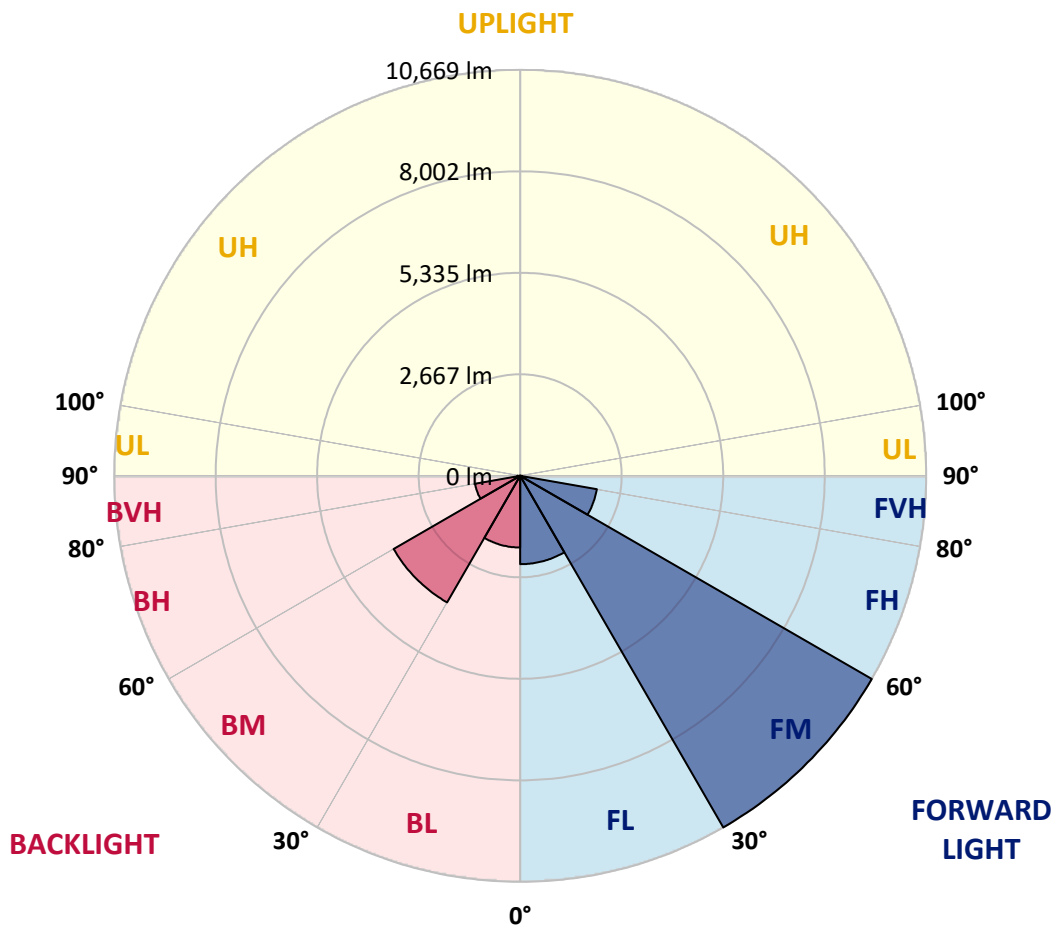
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.3	10.5			
FM (30°-60°)	10669.5	48.3			
FH (60°-80°)	2046.2	9.3			G2/5000
FVH (80°-90°)	51.2	0.2			G1/100
BL (0°-30°)	1884.6	8.5	B3/2500		
BM (30°-60°)	3841.3	17.4	B3/5000		
BH (60°-80°)	1204.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	69.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4420.1	4411.7	4406.0	4451.1	4434.2	4437.0	4420.1	4437.0	4448.3	4422.9	4459.5
5°	4411.7	4437.0	4414.5	4428.6	4465.2	4453.9	4465.2	4499.0	4490.5	4482.1	4470.8
7.5°	4490.5	4493.4	4510.3	4515.9	4527.2	4515.9	4532.8	4563.8	4555.3	4507.4	4513.1
10°	4603.2	4608.9	4611.7	4642.7	4662.4	4665.2	4645.5	4617.3	4614.5	4679.3	4634.2
12.5°	4732.8	4718.7	4752.5	4763.8	4786.3	4811.7	4837.0	4777.9	4814.5	4817.3	4763.8
15°	4921.6	4935.6	4896.2	4896.2	4904.7	4907.5	4977.9	4949.7	4944.1	4913.1	4935.6
17.5°	5203.3	5107.5	5104.7	5065.2	5059.6	5082.1	5107.5	5130.0	5206.1	5144.1	5023.0
20°	5408.9	5431.5	5349.8	5301.9	5310.3	5361.0	5335.7	5437.1	5490.6	5389.2	5270.9
22.5°	5772.3	5696.3	5716.0	5608.9	5617.4	5670.9	5668.1	5772.3	5803.3	5642.7	5470.9
25°	6017.4	5997.7	6014.6	5930.1	5941.4	5983.6	6051.2	6223.1	6172.4	5994.9	5597.7
27.5°	6375.2	6335.8	6321.7	6290.7	6279.4	6392.1	6471.0	6654.1	6617.5	6358.3	5823.0
30°	6741.4	6716.1	6730.2	6603.4	6648.5	6887.9	6910.5	7161.2	7144.3	6687.9	6073.8
32.5°	6995.0	7009.1	7034.4	6964.0	7164.0	7355.6	7431.6	7716.2	7730.3	7254.2	6558.3
35°	7403.5	7355.6	7369.7	7451.4	7544.3	7893.7	8017.6	8206.4	8324.7	7848.6	7023.2
37.5°	7659.8	7710.5	7651.4	7781.0	8023.2	8443.0	8555.7	8750.1	8874.0	8434.5	7657.0
40°	8059.9	7978.2	8020.4	8113.4	8361.3	8907.8	8876.8	9076.9	9116.3	8933.2	8248.6
42.5°	8490.9	8451.4	8392.3	8603.6	8812.0	9209.3	9271.2	9178.3	9378.3	9420.5	9093.8
45°	9006.4	9054.3	9062.8	9068.4	9251.5	9598.0	9513.5	9431.8	9662.8	9969.9	9617.7
47.5°	9485.3	9333.2	9443.1	9595.2	9854.4	9857.2	9955.8	9761.4	10006.5	10279.8	10091.0
50°	9645.9	9572.7	9719.2	10006.5	10406.5	10448.8	10460.1	10184.0	10310.8	10527.7	10254.4
52.5°	9583.9	9558.6	9933.3	10378.4	10964.3	11178.4	11234.8	10893.9	10964.3	10865.7	10615.0
55°	9288.1	9364.2	9741.7	10648.8	11547.5	12209.5	12316.6	11885.5	11437.6	11513.7	11237.6
56°	8882.5	8750.1	9172.6	10341.8	11522.1	12544.8	12632.1	12094.0	11789.8	11691.2	11232.0
57.5°	7535.9	7364.0	7919.0	9305.0	10882.6	12418.0	12482.8	12181.4	11730.6	11530.6	10412.2
60°	4411.7	4496.2	5200.5	6417.5	8395.1	10181.2	10398.1	10617.8	10316.4	9420.5	7750.0
62.5°	2129.8	2076.2	2580.5	3679.2	5115.9	6499.2	6434.4	7051.3	7389.4	6693.5	4893.4
65°	1115.6	1110.0	1408.6	2008.6	2811.5	3414.4	3473.5	3806.0	4270.8	3448.2	2484.7
67.5°	819.8	842.3	991.6	1411.4	1808.6	1845.2	1836.8	2003.0	2048.1	1732.5	1526.9
70°	642.3	653.6	763.4	1073.3	1346.6	1205.7	1180.4	1200.1	1332.5	1388.9	1321.2
72.5°	464.8	476.1	569.1	724.0	842.3	822.6	839.5	949.4	1112.8	1171.9	1101.5
75°	309.9	318.3	369.0	442.3	498.6	538.1	569.1	695.8	848.0	881.8	848.0
77.5°	214.1	222.6	256.4	312.7	318.3	343.7	355.0	414.1	507.1	549.3	526.8
80°	121.1	121.1	138.0	160.6	197.2	231.0	236.6	284.5	326.8	355.0	360.6
82.5°	56.3	59.2	73.2	98.6	129.6	160.6	166.2	197.2	228.2	256.4	264.8
85°	28.2	31.0	42.3	59.2	78.9	95.8	93.0	95.8	101.4	95.8	98.6
87.5°	8.5	8.5	11.3	14.1	11.3	14.1	14.1	16.9	19.7	22.5	25.4
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°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4462.4	4470.8	4414.5	4468.0	4448.3	4445.5	4484.9	4479.3	4493.4	4487.7	4453.9
5°	4465.2	4445.5	4504.6	4451.1	4476.4	4530.0	4493.4	4577.9	4535.6	4563.8	4501.8
7.5°	4552.5	4558.1	4546.9	4569.4	4558.1	4583.5	4563.8	4583.5	4549.7	4552.5	4608.9
10°	4628.6	4611.7	4631.4	4603.2	4622.9	4614.5	4569.4	4555.3	4566.6	4552.5	4589.1
12.5°	4769.4	4738.4	4724.4	4690.6	4668.0	4583.5	4513.1	4473.6	4527.2	4535.6	4518.7
15°	4913.1	4915.9	4851.1	4775.1	4634.2	4507.4	4524.3	4538.4	4538.4	4561.0	4518.7
17.5°	5003.3	5003.3	4944.1	4792.0	4648.3	4575.0	4558.1	4513.1	4473.6	4468.0	4465.2
20°	5161.0	5113.1	4977.9	4789.2	4642.7	4608.9	4482.1	4375.0	4293.3	4265.2	4262.3
22.5°	5341.3	5220.2	5031.4	4794.8	4634.2	4586.3	4349.7	4189.1	4042.6	3980.6	3989.1
25°	5507.5	5313.1	5062.4	4769.4	4603.2	4372.2	4107.4	3884.8	3732.7	3682.0	3656.7
27.5°	5623.0	5411.7	5062.4	4792.0	4487.7	4132.8	3862.3	3577.8	3445.4	3411.6	3417.2
30°	5778.0	5535.7	5149.7	4744.1	4256.7	3822.9	3498.9	3313.0	3234.1	3205.9	3225.6
32.5°	6141.4	5859.7	5270.9	4628.6	3983.4	3513.0	3251.0	3146.8	3031.3	2974.9	2955.2
35°	6535.8	6166.7	5389.2	4434.2	3676.4	3231.3	3067.9	2972.1	2834.1	2772.1	2783.3
37.5°	7093.6	6561.1	5397.7	4113.0	3344.0	3073.5	2924.2	2774.9	2662.2	2566.4	2538.3
40°	7845.8	7099.2	5377.9	3775.0	3076.3	2887.6	2777.7	2591.8	2465.0	2397.4	2411.5
42.5°	8507.8	7730.3	5296.2	3391.8	2834.1	2760.8	2636.9	2453.7	2329.8	2259.4	2253.7
45°	9065.6	8195.1	5141.3	3065.1	2631.2	2619.9	2476.3	2335.4	2236.8	2172.0	2200.2
47.5°	9581.1	8569.8	4907.5	2738.3	2445.3	2467.8	2329.8	2242.5	2180.5	2121.3	2118.5
50°	9767.1	8564.1	4701.8	2467.8	2296.0	2284.7	2279.1	2186.1	2121.3	2070.6	2093.1
52.5°	10076.9	8659.9	4479.3	2281.9	2160.8	2163.6	2183.3	2115.7	2042.4	2011.4	2039.6
55°	10522.0	8674.0	3989.1	2065.0	2048.1	2067.8	2067.8	2022.7	1960.7	1935.4	1921.3
56°	10158.6	8254.2	3577.8	2008.6	1991.7	1991.7	2045.2	1994.5	1918.5	1898.8	1881.9
57.5°	9369.8	7231.6	2994.6	1941.0	1915.7	1955.1	1983.3	1929.7	1859.3	1831.1	1848.0
60°	6462.5	4893.4	2250.9	1794.5	1794.5	1859.3	1881.9	1803.0	1772.0	1769.2	1746.6
62.5°	3772.2	2851.0	1760.7	1662.1	1667.8	1721.3	1738.2	1693.1	1653.7	1701.6	1724.1
65°	2000.2	1701.6	1510.0	1521.3	1524.1	1566.3	1639.6	1636.8	1633.9	1648.0	1650.8
67.5°	1448.0	1414.2	1372.0	1360.7	1366.3	1397.3	1470.6	1526.9	1524.1	1490.3	1464.9
70°	1290.3	1242.4	1217.0	1219.8	1197.3	1233.9	1293.1	1329.7	1264.9	1225.5	1208.6
72.5°	1073.3	1059.2	1042.3	1045.2	1000.1	991.6	924.0	924.0	907.1	895.9	915.6
75°	819.8	814.2	822.6	808.5	760.6	709.9	670.5	633.9	577.5	555.0	543.7
77.5°	518.4	535.3	555.0	524.0	504.3	467.6	428.2	391.6	346.5	321.2	321.2
80°	352.1	366.2	380.3	374.7	352.1	318.3	287.3	247.9	216.9	197.2	194.4
82.5°	267.6	278.9	298.6	276.1	253.5	225.4	200.0	171.8	143.7	121.1	121.1
85°	95.8	109.9	121.1	132.4	140.9	143.7	124.0	101.4	81.7	64.8	62.0
87.5°	25.4	28.2	31.0	28.2	28.2	28.2	31.0	28.2	25.4	19.7	19.7
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)