

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: P530429

Luminaire Tested: **GALN-SA5C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15741 lumens  
Efficiency: N/A  
Efficacy: 58.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

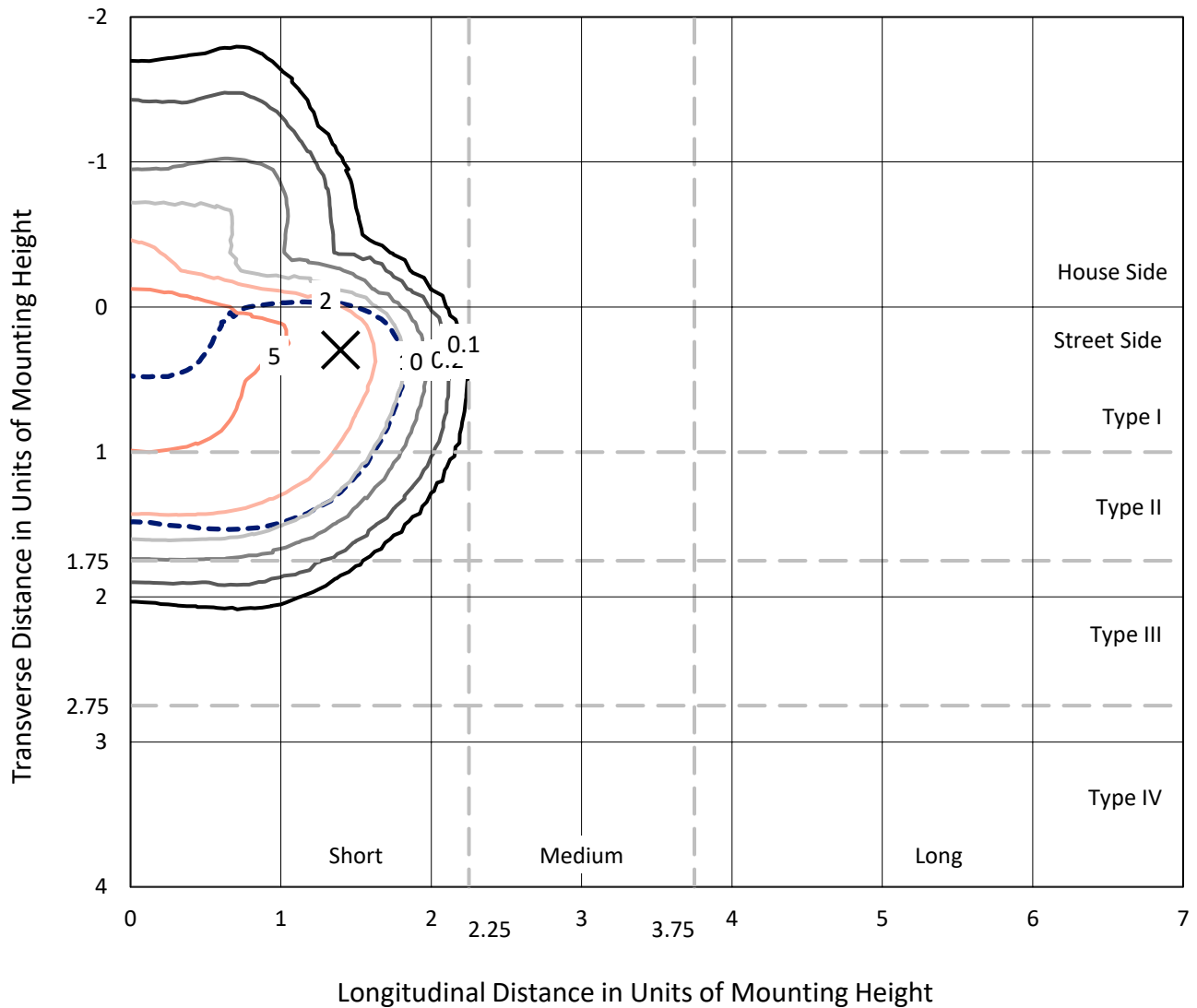
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

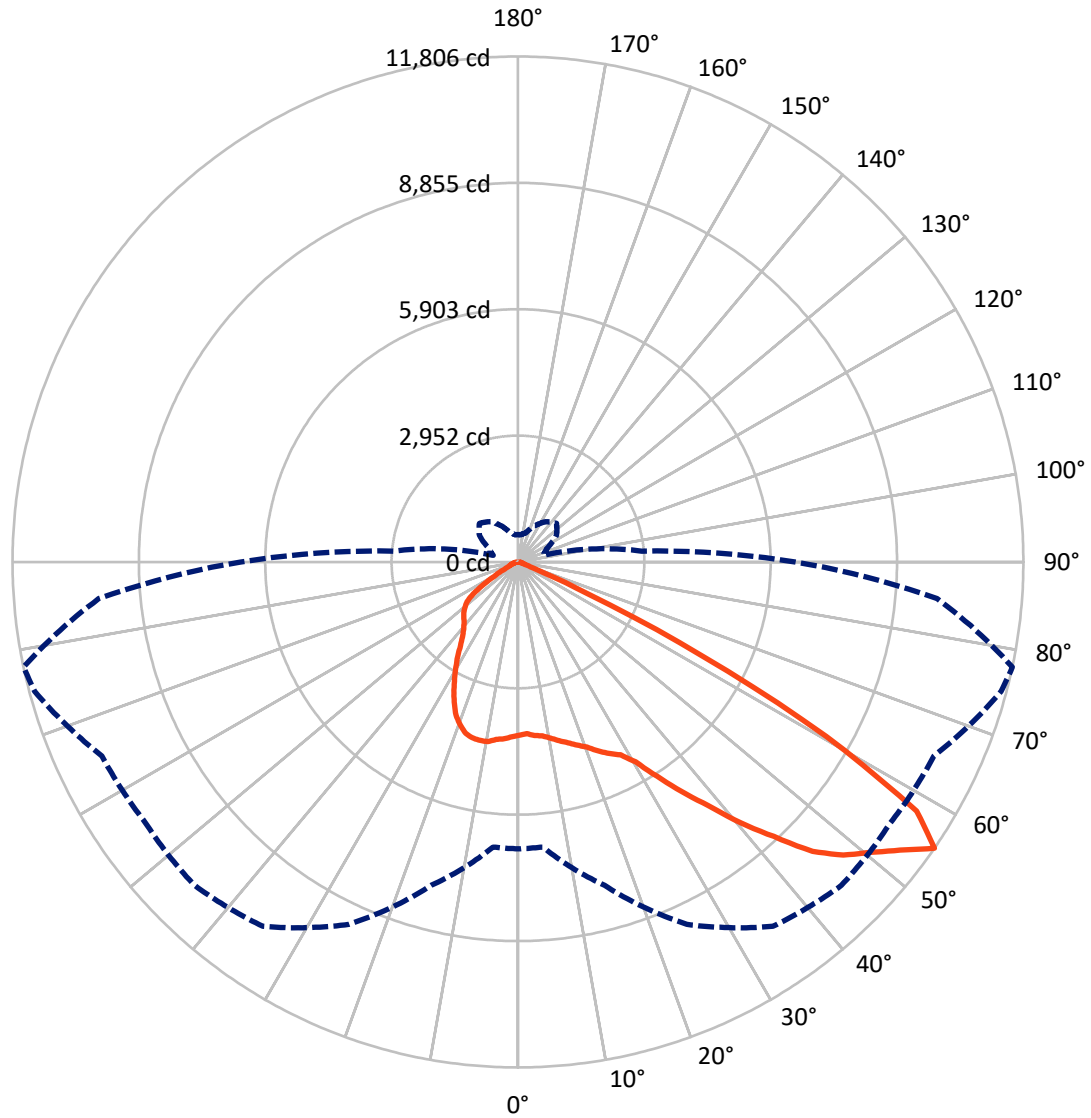
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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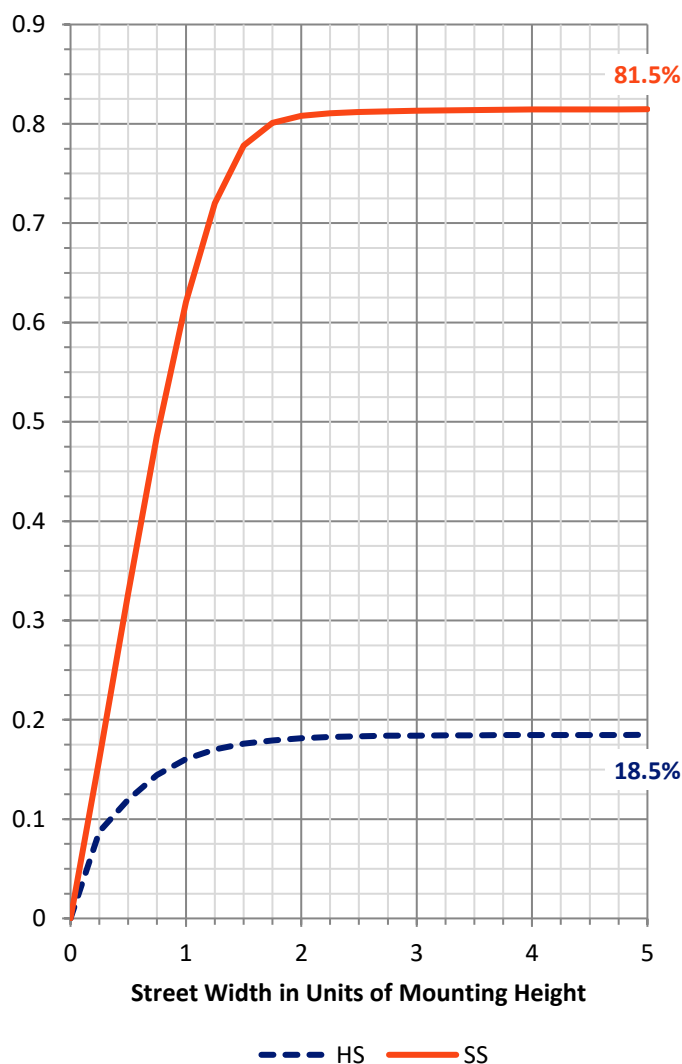
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2923.7	0.0	2923.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12817.3	0.0	12817.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15741.0	0.0	15741.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.9	2.3
10°-20°	955.0	6.1
20°-30°	1674.0	10.6
30°-40°	2760.2	17.5
40°-50°	4016.5	25.5
50°-60°	4551.1	28.9
60°-70°	1301.2	8.3
70°-80°	101.0	0.6
80°-90°	21.0	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°	15741.0	100.0
0°-180°	15741.0	100.0

**Coefficient of Utilization**



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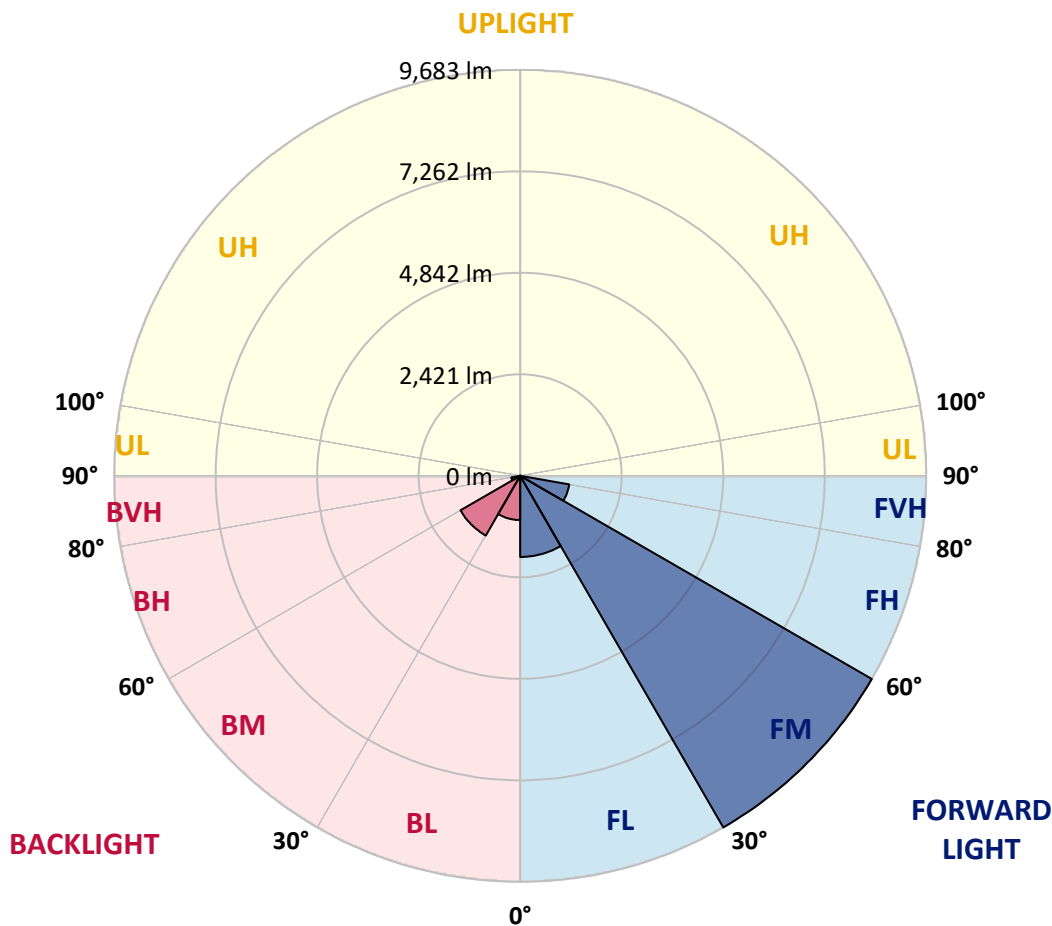
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.0	12.3			
FM (30°-60°)	9683.2	61.5			
FH (60°-80°)	1188.9	7.6			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	1054.9	6.7	B3/2500		
BM (30°-60°)	1644.6	10.4	B2/2500		
BH (60°-80°)	213.4	1.4	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0
2.5°	3805.0	3841.6	3847.2	3892.2	3889.4	3965.4	3987.9	3990.7	4041.4	4016.1	4080.8
5°	3698.0	3678.3	3669.9	3748.7	3771.2	3838.8	3895.0	3928.8	4032.9	4069.5	4137.1
7.5°	3602.4	3602.4	3608.0	3678.3	3669.9	3757.1	3816.2	3920.4	4072.3	4103.3	4184.9
10°	3509.5	3475.7	3517.9	3591.1	3653.0	3692.4	3816.2	3914.7	4092.0	4182.1	4294.7
12.5°	3461.6	3478.5	3484.2	3537.6	3605.2	3723.4	3790.9	3954.1	4232.8	4286.2	4407.3
15°	3762.8	3729.0	3647.4	3599.5	3655.8	3712.1	3881.0	4047.0	4305.9	4381.9	4517.0
17.5°	4111.8	4083.6	4016.1	3886.6	3760.0	3864.1	3996.4	4148.3	4384.7	4497.3	4697.1
20°	4567.7	4522.6	4455.1	4201.8	4092.0	3979.5	4120.2	4300.3	4514.2	4615.5	4821.0
22.5°	5110.8	5110.8	4958.9	4652.1	4424.1	4317.2	4376.3	4480.4	4657.7	4795.6	4998.3
25°	5676.5	5659.6	5521.7	5203.7	4818.1	4691.5	4759.0	4832.2	4880.1	4956.1	5091.1
27.5°	6323.8	6225.3	6050.8	5699.0	5358.5	5113.7	5186.8	5122.1	5063.0	5102.4	5296.6
30°	6762.9	6824.8	6602.4	6264.7	5943.9	5670.9	5685.0	5628.7	5358.5	5414.8	5530.2
32.5°	7218.8	7258.2	7134.4	6948.6	6627.8	6309.7	6194.4	6146.5	5943.9	5969.2	5856.6
35°	7598.7	7674.7	7564.9	7483.3	7390.5	7134.4	6816.3	6971.1	6644.7	6582.7	6290.0
37.5°	7947.7	7925.2	8054.6	7970.2	7950.5	7770.4	7421.4	7452.4	7232.9	7218.8	6881.1
40°	8260.1	8265.7	8443.0	8482.4	8403.6	8082.8	7576.2	7821.0	7998.4	8015.2	7581.8
42.5°	8519.0	8595.0	8747.0	9065.0	8946.8	8412.1	7736.6	8004.0	8662.5	8766.7	8246.0
45°	8744.2	8898.9	9087.5	9371.8	9304.2	8879.2	8136.3	8381.1	9371.8	9644.7	8870.8
47.5°	8758.2	8960.9	9166.3	9588.5	9672.9	9129.7	8550.0	8977.7	9934.6	10230.1	9326.7
50°	8701.9	8808.9	9219.8	9678.5	9869.9	9537.8	9129.7	9478.7	10480.6	10666.3	9557.5
52.5°	8034.9	8116.6	8941.2	9762.9	10224.5	9999.3	9898.0	10176.7	11037.8	11175.7	9774.2
55°	6698.1	6684.1	7818.2	9338.0	10387.7	10683.2	10621.3	10719.8	11682.3	11806.2	9827.7
57.5°	4581.7	4837.8	5817.2	7776.0	9388.6	10522.8	10587.5	10424.3	10930.9	10978.7	8566.8
60°	2471.0	2577.9	3366.0	5189.6	7148.4	8575.3	8744.2	8448.6	8409.2	8274.2	6115.6
62.5°	982.2	1035.7	1483.2	2569.5	3895.0	5212.2	5575.2	5454.2	5195.3	4840.7	3166.1
65°	467.2	501.0	737.4	1201.7	1728.0	2172.7	2535.7	2648.3	1953.2	1759.0	1044.1
67.5°	318.0	343.3	537.5	686.7	616.3	644.5	838.7	779.6	458.7	391.2	289.9
70°	242.0	258.9	430.6	467.2	275.8	194.2	216.7	202.6	188.6	191.4	188.6
72.5°	171.7	185.7	315.2	275.8	121.0	90.1	115.4	137.9	137.9	137.9	135.1
75°	104.1	118.2	182.9	106.9	47.8	47.8	73.2	92.9	98.5	101.3	95.7
77.5°	53.5	67.5	61.9	31.0	31.0	36.6	53.5	64.7	70.4	70.4	67.5
80°	11.3	11.3	11.3	16.9	31.0	39.4	53.5	59.1	67.5	67.5	61.9
82.5°	0.0	2.8	8.4	16.9	28.1	36.6	50.7	59.1	67.5	70.4	64.7
85°	0.0	2.8	5.6	11.3	19.7	22.5	19.7	16.9	16.9	16.9	16.9
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0	4047.0
2.5°	4086.4	4094.9	4080.8	4078.0	4066.7	4100.5	4018.9	3999.2	4049.8	4002.0	4013.2
5°	4139.9	4159.6	4134.3	4092.0	4030.1	3934.4	3852.8	3745.9	3695.2	3658.6	3653.0
7.5°	4179.3	4193.4	4168.0	4032.9	3847.2	3605.2	3425.1	3292.8	3188.6	3157.7	3107.0
10°	4339.7	4342.5	4215.9	3917.6	3554.5	3236.5	2960.7	2758.1	2653.9	2589.2	2561.0
12.5°	4446.7	4441.0	4184.9	3689.6	3205.5	2783.4	2468.2	2223.3	2127.6	2096.7	2077.0
15°	4581.7	4550.8	4111.8	3456.0	2755.2	2299.3	2015.1	1846.2	1837.8	1818.1	1837.8
17.5°	4688.7	4601.4	4004.8	3031.0	2324.6	1894.1	1708.3	1719.6	1742.1	1761.8	1764.6
20°	4863.2	4683.1	3760.0	2659.6	1925.0	1623.9	1621.1	1671.7	1728.0	1750.5	1773.0
22.5°	4995.5	4716.8	3498.2	2262.7	1598.5	1514.1	1562.0	1637.9	1680.2	1702.7	1736.4
25°	5043.3	4624.0	3149.2	1865.9	1440.9	1463.5	1536.6	1587.3	1640.8	1666.1	1652.0
27.5°	5091.1	4576.1	2732.7	1536.6	1356.5	1429.7	1491.6	1542.3	1559.1	1592.9	1615.4
30°	5206.5	4410.1	2358.4	1328.4	1314.3	1407.2	1452.2	1469.1	1514.1	1533.8	1533.8
32.5°	5299.4	4345.3	1961.6	1229.9	1308.7	1418.4	1424.1	1424.1	1429.7	1415.6	1410.0
35°	5490.8	4123.0	1607.0	1170.8	1305.9	1421.2	1435.3	1387.5	1258.0	1207.4	1193.3
37.5°	5727.2	3979.5	1345.3	1156.7	1325.6	1455.0	1477.5	1297.4	1128.6	1046.9	1032.9
40°	6014.2	3878.2	1173.6	1151.1	1370.6	1533.8	1466.3	1227.1	1007.5	889.3	883.7
42.5°	6349.2	3785.3	1058.2	1148.3	1426.9	1615.4	1455.0	1168.0	883.7	804.9	816.2
45°	6616.5	3734.6	979.4	1128.6	1446.6	1663.3	1463.5	1063.8	833.0	782.4	788.0
47.5°	6824.8	3627.7	914.7	1094.8	1443.8	1680.2	1387.5	1021.6	807.7	821.8	835.9
50°	6830.4	3484.2	833.0	1021.6	1401.5	1649.2	1300.2	982.2	802.1	861.2	889.3
52.5°	6754.4	3281.5	745.8	917.5	1303.0	1542.3	1221.4	965.3	776.8	771.1	804.9
55°	6484.2	2901.6	599.5	743.0	1100.4	1272.1	1151.1	934.4	700.8	636.0	641.7
57.5°	5240.3	2079.8	441.9	531.9	779.6	931.5	1038.5	920.3	630.4	540.4	543.2
60°	3244.9	1179.2	323.6	363.0	481.3	565.7	841.5	855.6	562.9	455.9	450.3
62.5°	1666.1	582.6	250.5	256.1	295.5	332.1	576.9	717.7	509.4	433.4	433.4
65°	557.2	287.1	219.5	197.0	197.0	205.4	349.0	498.1	430.6	363.0	363.0
67.5°	239.2	213.9	191.4	171.7	157.6	149.2	197.0	289.9	320.8	275.8	264.5
70°	185.7	180.1	166.0	143.5	123.8	112.6	115.4	149.2	182.9	177.3	171.7
72.5°	137.9	137.9	132.3	112.6	95.7	81.6	76.0	78.8	87.2	90.1	92.9
75°	95.7	98.5	98.5	87.2	70.4	59.1	50.7	42.2	33.8	28.1	25.3
77.5°	64.7	67.5	73.2	64.7	53.5	39.4	31.0	22.5	14.1	5.6	5.6
80°	56.3	64.7	70.4	64.7	56.3	42.2	31.0	16.9	8.4	0.0	0.0
82.5°	59.1	64.7	73.2	61.9	53.5	39.4	31.0	19.7	8.4	2.8	0.0
85°	14.1	14.1	16.9	19.7	25.3	28.1	22.5	14.1	8.4	2.8	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	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)