

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: P530557

Luminaire Tested: **GALN-SA5D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21551 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

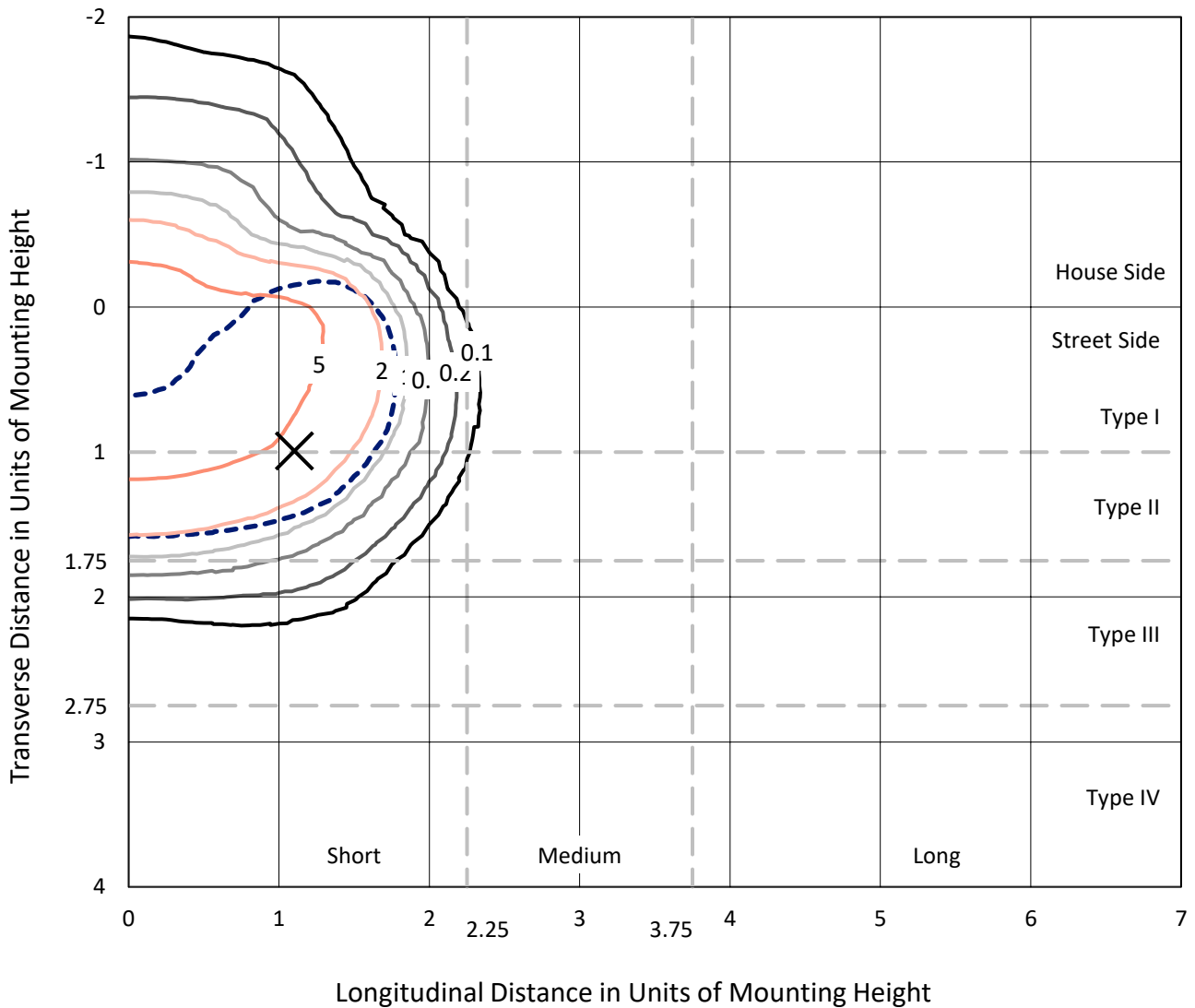
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530557
 CATALOG NUMBER: GALN-SA5D-735-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

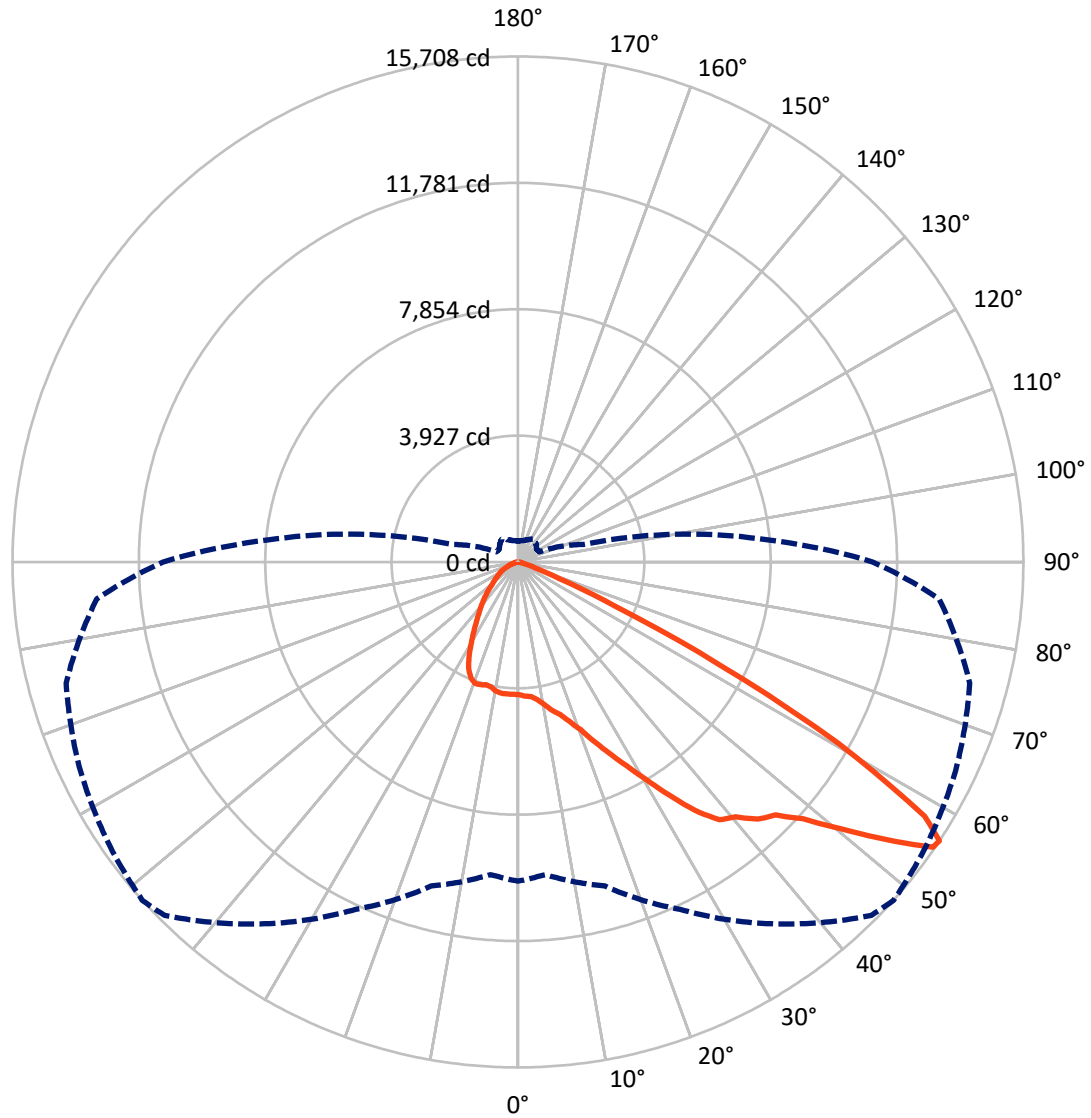
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P530557
CATALOG NUMBER: GALN-SA5D-735-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530557
 CATALOG NUMBER: GALN-SA5D-735-U-T3-GRSBK

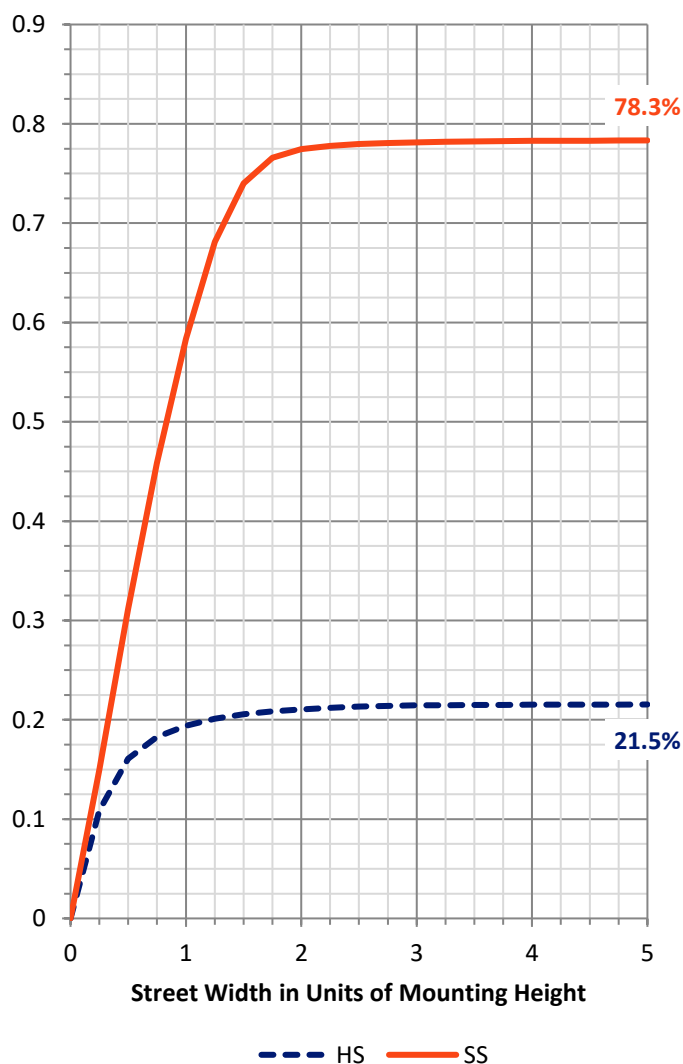
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4686.9	0.0	4686.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16864.1	0.0	16864.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	21551.0	0.0	21551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	1.9
10°-20°	1281.4	5.9
20°-30°	2324.2	10.8
30°-40°	3650.9	16.9
40°-50°	5326.0	24.7
50°-60°	6416.8	29.8
60°-70°	1878.8	8.7
70°-80°	238.3	1.1
80°-90°	33.4	0.2
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°	21551.0	100.0
0°-180°	21551.0	100.0

Coefficient of Utilization

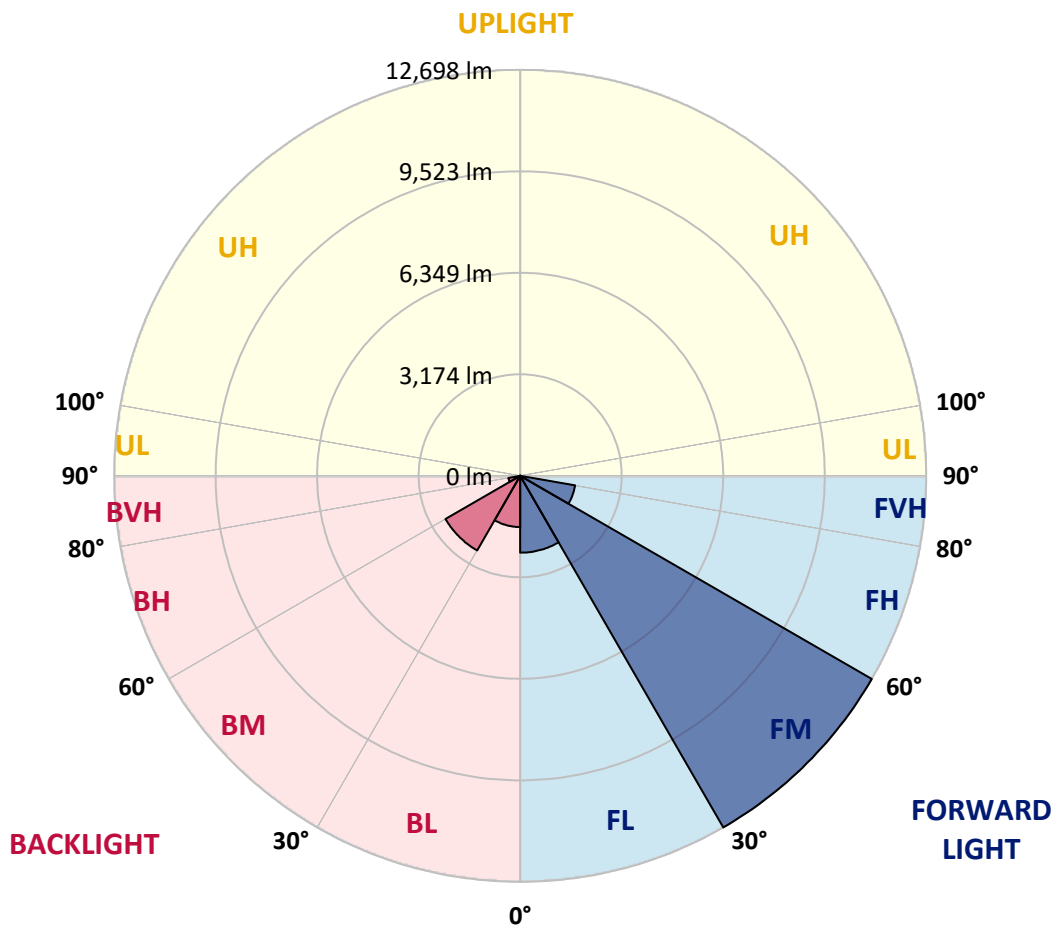


REPORT NUMBER: P530557
 CATALOG NUMBER: GALN-SA5D-735-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.7	11.2			
FM (30°-60°)	12697.9	58.9			
FH (60°-80°)	1744.7	8.1			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1602.0	7.4	B3/2500		
BM (30°-60°)	2695.9	12.5	B3/5000		
BH (60°-80°)	372.4	1.7	B1/500		G1/500
BVH (80°-90°)	16.6	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





REPORT NUMBER: P530557

CATALOG NUMBER: GALN-SA5D-735-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3
2.5°	4190.8	4171.2	4171.2	4139.8	4175.1	4159.4	4171.2	4131.9	4171.2	4112.3	4159.4
5°	4210.4	4214.3	4198.7	4218.3	4218.3	4241.8	4202.6	4237.9	4257.5	4214.3	4194.7
7.5°	4312.4	4320.3	4316.4	4300.7	4332.1	4328.1	4324.2	4296.8	4304.6	4288.9	4265.4
10°	4512.6	4508.6	4528.3	4489.0	4465.5	4493.0	4500.8	4457.6	4426.2	4414.5	4339.9
12.5°	4802.9	4755.9	4728.4	4689.2	4700.9	4661.7	4732.3	4657.8	4642.1	4571.4	4496.9
15°	5038.4	5030.5	5034.5	4971.7	4901.0	4916.7	4916.7	4877.5	4854.0	4767.6	4661.7
17.5°	5521.0	5356.2	5391.5	5313.1	5254.2	5250.3	5215.0	5222.8	5160.0	4979.5	4818.6
20°	5897.7	5827.1	5772.2	5638.8	5548.5	5576.0	5560.3	5521.0	5501.4	5266.0	5038.4
22.5°	6235.2	6258.7	6168.5	6133.2	6007.6	6019.4	6050.8	6015.5	5866.3	5623.1	5285.6
25°	6710.0	6682.5	6560.9	6517.7	6400.0	6443.2	6564.8	6537.3	6443.2	6003.7	5477.9
27.5°	7271.1	7177.0	7200.5	7004.3	6890.5	7012.1	7157.3	7294.7	7027.8	6451.0	5705.5
30°	7667.4	7569.3	7561.5	7553.7	7526.2	7667.4	7836.2	7961.7	7745.9	6898.3	6082.2
32.5°	7863.6	7887.2	7953.9	7930.4	8169.7	8460.1	8636.7	8817.2	8546.4	7628.2	6580.5
35°	8385.5	8236.4	8385.5	8401.2	8648.4	9264.5	9488.2	9919.8	9853.1	8660.2	7188.7
37.5°	8691.6	8679.8	8699.5	8848.6	9087.9	9849.2	10167.0	10500.6	10375.0	9280.2	7946.1
40°	9197.8	9229.2	9225.3	9339.1	9602.0	10288.7	10418.2	10688.9	10700.7	10139.6	9060.5
42.5°	10010.1	9884.5	9802.1	9919.8	10288.7	10669.3	10928.3	10873.3	11261.8	11183.3	10492.7
45°	10739.9	10814.5	10692.8	10889.0	11022.4	11226.5	11218.6	11336.4	11830.8	12203.6	11571.8
47.5°	11422.7	11469.8	11528.6	11662.1	11952.4	11983.8	11917.1	11866.1	12548.9	12933.4	12407.6
50°	11830.8	11873.9	12148.6	12388.0	12929.5	13000.1	13039.4	12909.9	13372.9	13416.1	13196.3
52.5°	11720.9	11768.0	12152.6	12941.3	13804.5	14452.0	14334.3	14114.5	14087.1	14255.8	13926.2
55°	10747.8	10704.6	11234.3	12462.5	14079.2	15633.1	15648.8	15417.3	14973.9	14860.1	13816.3
56°	9919.8	9751.1	10426.0	11909.3	13726.1	15531.1	15707.7	15460.5	15044.5	14534.4	13137.5
57.5°	8126.6	8287.4	8958.4	10186.6	12505.7	14797.3	14899.3	14840.5	14526.6	13671.1	11560.0
60°	4481.2	4763.7	5356.2	6859.1	8903.5	11356.0	11438.4	11917.1	11976.0	10469.2	7953.9
62.5°	1903.1	1871.7	2487.8	3594.4	5069.8	6855.2	7008.2	7498.7	7589.0	6035.1	3990.7
65°	773.0	816.2	1126.2	1809.0	2680.1	3123.5	3339.3	3500.2	3798.4	2491.7	1471.5
67.5°	510.1	506.2	663.2	1032.0	1444.0	1393.0	1393.0	1471.5	1361.6	1016.3	635.7
70°	364.9	376.7	474.8	714.2	898.6	667.1	639.6	612.1	694.5	671.0	514.0
72.5°	239.4	255.1	317.8	427.7	467.0	364.9	364.9	439.5	572.9	541.5	419.9
75°	157.0	160.9	196.2	247.2	231.5	188.4	208.0	294.3	415.9	400.2	298.2
77.5°	105.9	109.9	133.4	160.9	129.5	105.9	113.8	149.1	204.0	204.0	157.0
80°	39.2	43.2	54.9	51.0	58.9	74.6	82.4	102.0	121.6	121.6	105.9
82.5°	0.0	3.9	11.8	27.5	43.2	58.9	66.7	78.5	90.3	102.0	98.1
85°	0.0	3.9	11.8	19.6	31.4	35.3	39.2	27.5	23.5	23.5	19.6
87.5°	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.8	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530557

CATALOG NUMBER: GALN-SA5D-735-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3	4116.3
2.5°	4116.3	4112.3	4112.3	4100.6	4124.1	4112.3	4120.2	4116.3	4065.2	4104.5	4077.0
5°	4159.4	4186.9	4143.7	4135.9	4104.5	4116.3	4116.3	4077.0	4112.3	4108.4	4100.6
7.5°	4269.3	4222.2	4175.1	4128.0	4120.2	4108.4	4065.2	4049.5	4077.0	4045.6	4092.7
10°	4316.4	4324.2	4253.6	4190.8	4131.9	4049.5	3990.7	3955.4	3912.2	3959.3	3986.8
12.5°	4532.2	4453.7	4332.1	4234.0	4033.8	3951.4	3892.6	3876.9	3951.4	3967.1	3939.7
15°	4606.7	4595.0	4438.0	4218.3	4010.3	3912.2	3924.0	3892.6	3900.4	3861.2	3869.0
17.5°	4759.8	4626.4	4441.9	4167.3	4006.4	3982.8	3912.2	3786.6	3716.0	3684.6	3712.1
20°	4928.5	4799.0	4532.2	4186.9	4041.7	3978.9	3747.4	3594.4	3449.2	3370.7	3374.6
22.5°	5077.6	4916.7	4493.0	4194.7	4073.1	3814.1	3535.5	3233.4	3052.9	2931.2	2935.1
25°	5258.1	5030.5	4508.6	4210.4	3990.7	3551.2	3151.0	2856.7	2640.8	2558.4	2585.9
27.5°	5360.2	5101.2	4595.0	4245.7	3774.9	3178.4	2746.8	2472.1	2346.5	2307.3	2303.4
30°	5666.2	5258.1	4700.9	4175.1	3413.9	2778.2	2377.9	2209.2	2087.6	2052.2	2060.1
32.5°	6121.4	5544.6	4838.3	3990.7	3045.0	2421.1	2138.6	2013.0	1899.2	1832.5	1824.6
35°	6502.0	6035.1	4983.4	3704.2	2617.3	2146.4	1969.8	1812.9	1640.2	1565.7	1546.0
37.5°	7228.0	6588.4	4952.1	3272.6	2209.2	1942.4	1789.3	1597.1	1447.9	1345.9	1334.2
40°	8193.3	7235.8	4799.0	2746.8	1907.1	1761.9	1597.1	1412.6	1228.2	1141.9	1134.0
42.5°	9366.5	8028.5	4520.4	2213.1	1604.9	1581.4	1432.3	1220.4	1055.5	992.8	996.7
45°	10320.1	8707.3	4237.9	1777.6	1381.2	1404.8	1275.3	1075.2	961.4	910.4	910.4
47.5°	11167.6	9166.4	3931.8	1467.6	1173.3	1228.2	1114.4	996.7	898.6	859.4	851.5
50°	11983.8	9633.4	3625.8	1189.0	1000.6	1055.5	1043.8	949.6	871.1	824.0	828.0
52.5°	12493.9	9707.9	3237.3	973.1	875.0	937.8	977.1	890.7	804.4	776.9	769.1
55°	11870.0	8746.5	2511.3	800.5	741.6	824.0	898.6	800.5	733.8	686.7	682.8
56°	11030.3	7820.5	2099.3	737.7	702.4	792.6	871.1	765.2	690.6	663.2	643.5
57.5°	9339.1	6400.0	1550.0	655.3	651.4	737.7	828.0	729.9	643.5	620.0	620.0
60°	5823.2	3602.2	937.8	549.4	565.1	655.3	745.6	651.4	572.9	572.9	584.7
62.5°	2652.6	1499.0	569.0	467.0	486.6	565.1	663.2	588.6	545.4	588.6	596.4
65°	902.5	647.5	412.0	372.8	384.5	467.0	569.0	596.4	592.5	620.0	635.7
67.5°	506.2	415.9	345.3	310.0	302.1	345.3	467.0	596.4	572.9	561.1	569.0
70°	427.7	353.2	306.1	274.7	262.9	278.6	361.0	451.3	404.2	392.4	384.5
72.5°	345.3	294.3	266.8	247.2	211.9	180.5	164.8	172.7	192.3	204.0	223.7
75°	243.3	223.7	223.7	200.1	153.0	113.8	90.3	74.6	51.0	35.3	39.2
77.5°	137.3	137.3	141.3	121.6	98.1	74.6	54.9	39.2	19.6	7.8	3.9
80°	94.2	102.0	109.9	98.1	82.4	66.7	47.1	27.5	11.8	0.0	0.0
82.5°	94.2	105.9	113.8	98.1	82.4	62.8	47.1	27.5	11.8	3.9	0.0
85°	19.6	23.5	27.5	31.4	47.1	47.1	35.3	23.5	11.8	3.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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)