

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: P457315

Luminaire Tested: **GALN-SA8C-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42532 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

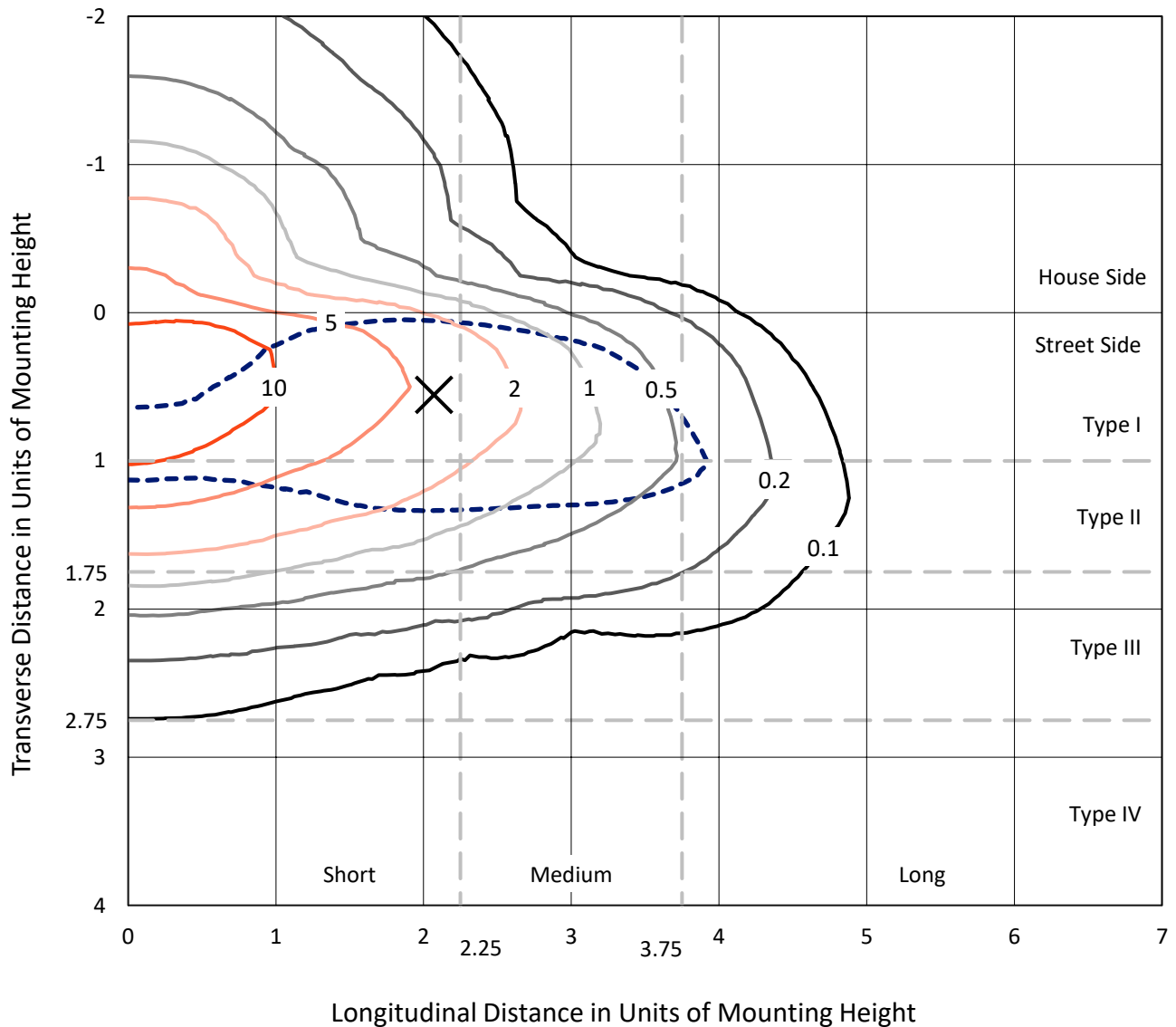
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

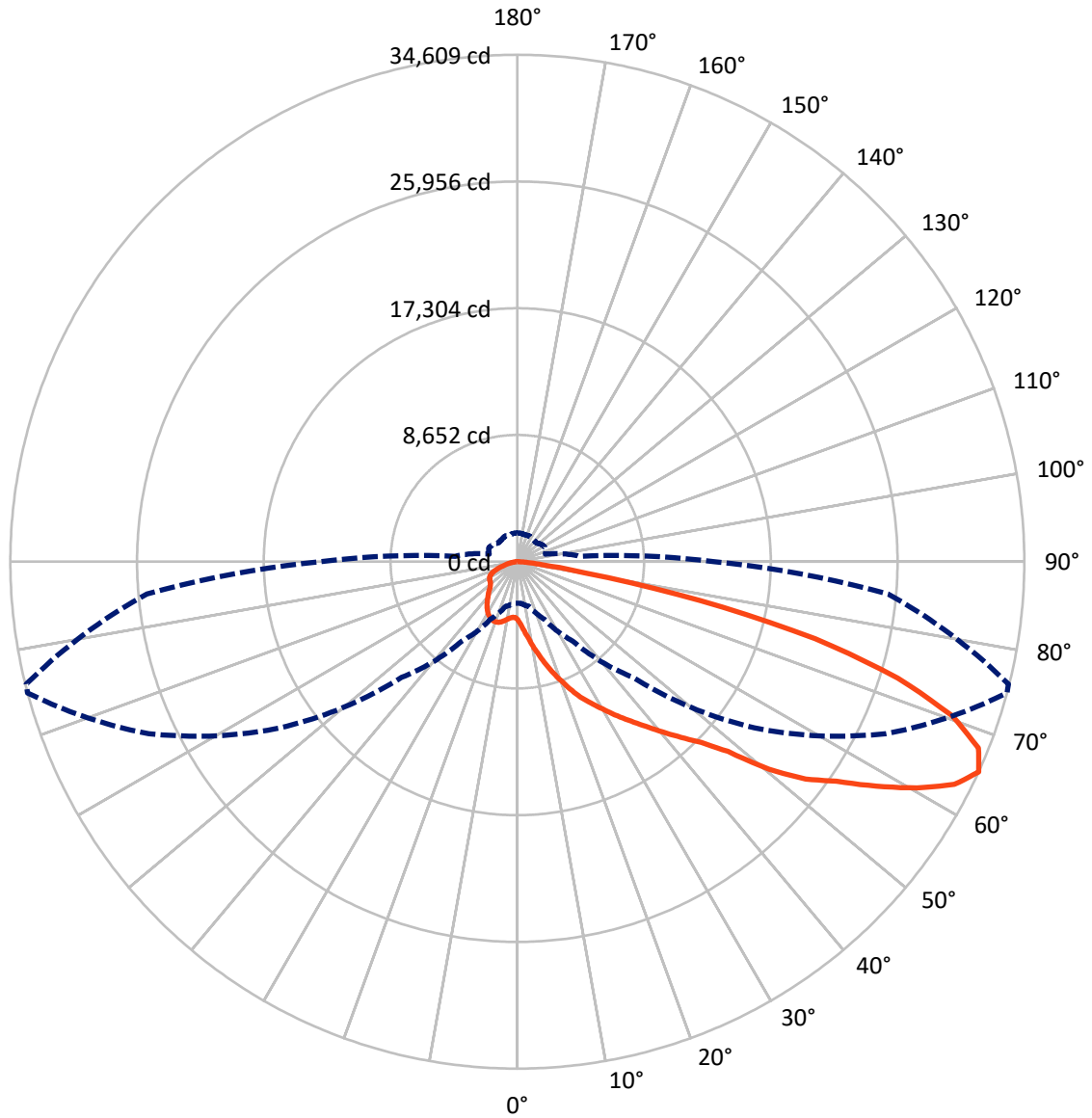
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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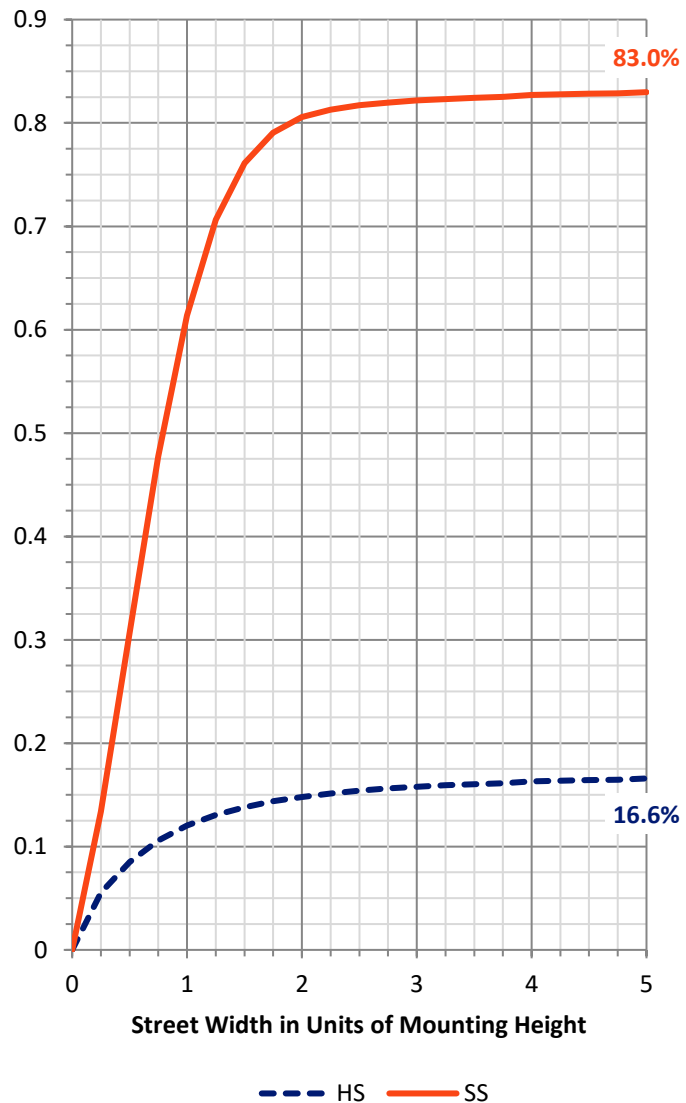
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7150.2	0.0	7150.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	35381.8	0.0	35381.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	42532.0	0.0	42532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	1.1
10°-20°	1880.6	4.4
20°-30°	3632.7	8.5
30°-40°	5900.6	13.9
40°-50°	8116.7	19.1
50°-60°	9583.1	22.5
60°-70°	8396.4	19.7
70°-80°	4008.5	9.4
80°-90°	533.4	1.3
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°	42532.0	100.0
0°-180°	42532.0	100.0



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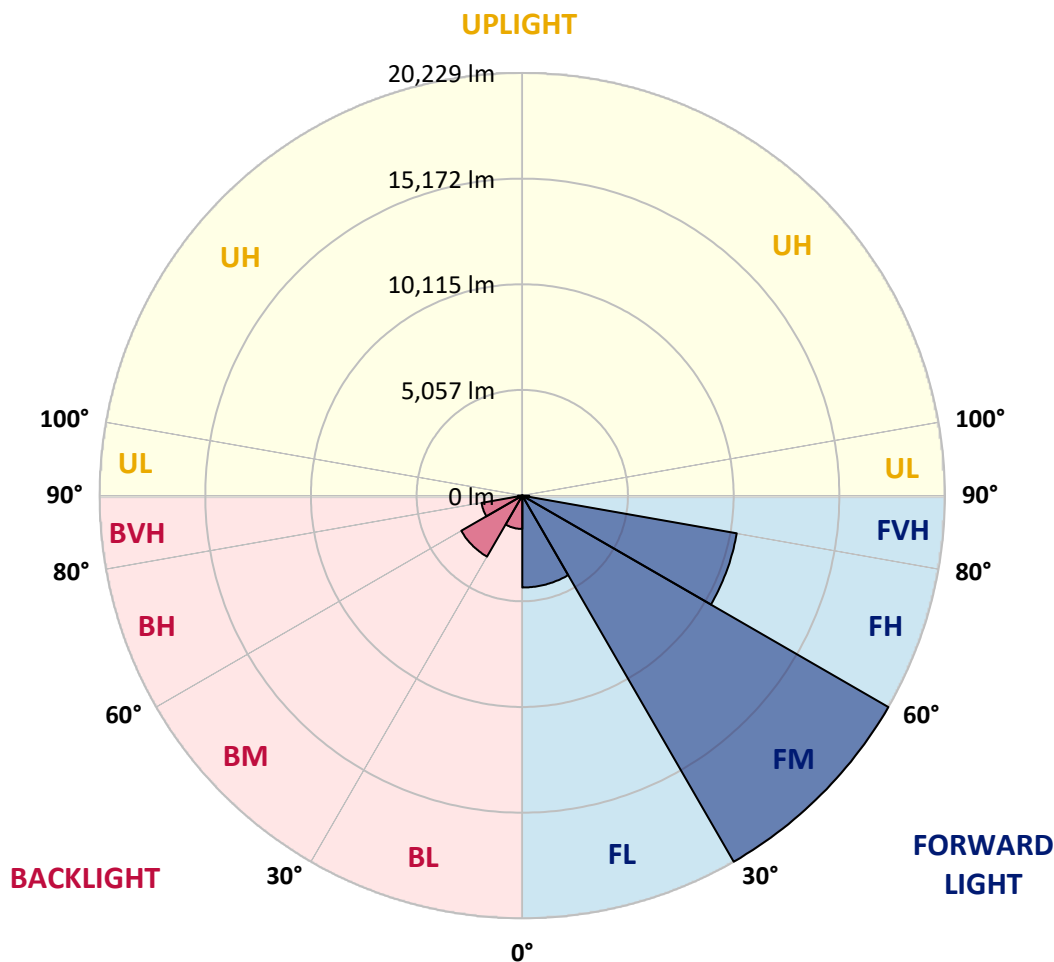
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4397.1	10.3			
FM	(30°-60°)	20229.1	47.6			
FH	(60°-80°)	10422.2	24.5			G4/12000
FVH	(80°-90°)	333.3	0.8			G3/500
BL	(0°-30°)	1596.3	3.8	B3/2500		
BM	(30°-60°)	3371.3	7.9	B3/5000		
BH	(60°-80°)	1982.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	200.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8
2.5°	5250.6	5216.0	5179.0	5077.5	4969.1	4846.8	4671.5	4503.1	4279.3	4272.4	4106.3
5°	6706.2	6683.2	6519.4	6424.8	6173.3	5838.8	5555.1	5114.4	4706.1	4657.7	4334.7
7.5°	8044.2	7954.3	7892.0	7721.3	7472.1	7043.0	6494.0	5898.8	5216.0	5151.4	4616.2
10°	9052.4	9043.1	9010.8	8863.2	8676.3	8249.6	7640.5	6787.0	5861.9	5735.0	4957.6
12.5°	9806.7	9813.7	9809.0	9806.7	9672.9	9310.7	8651.0	7751.3	6514.8	6424.8	5352.1
15°	10302.7	10371.9	10399.6	10515.0	10526.5	10284.3	9716.8	8683.3	7250.7	7116.9	5776.5
17.5°	10630.3	10664.9	10794.1	10990.2	11149.4	11105.5	10600.3	9546.0	8002.7	7778.9	6217.2
20°	10944.0	11004.0	11103.2	11370.8	11652.3	11781.5	11426.2	10429.6	8747.9	8604.8	6703.9
22.5°	11596.9	11682.3	11716.9	11853.0	12092.9	12321.3	12159.8	11276.2	9564.5	9370.7	7220.7
25°	12701.9	12791.9	12695.0	12662.7	12741.1	12854.2	12819.6	12074.4	10335.0	10058.2	7709.7
27.5°	14141.4	14153.0	13963.8	13783.9	13590.1	13532.4	13426.3	12782.7	11004.0	10773.3	8201.1
30°	15687.1	15631.7	15318.0	14992.7	14665.1	14342.1	14037.6	13465.5	11749.2	11483.9	8683.3
32.5°	17122.0	17092.0	16743.7	16238.4	15684.8	15380.3	14764.3	14155.3	12547.4	12291.3	9179.2
35°	18197.0	18240.8	17857.9	17306.5	16702.1	16432.2	15654.8	14879.7	13373.2	13094.1	9719.1
37.5°	18960.6	18937.5	18598.4	18120.9	17590.3	17355.0	16695.2	15670.9	14261.4	13993.8	10309.6
40°	19232.8	19219.0	18967.5	18619.2	18282.4	18199.3	17784.1	16524.5	15278.8	14965.0	11020.2
42.5°	19059.8	19089.8	18923.7	18829.1	18766.8	18826.8	18866.0	17643.4	16388.4	16100.0	11790.7
45°	18529.2	18513.1	18490.0	18644.6	18995.2	19389.7	19936.4	18699.9	17594.9	17364.2	12824.2
47.5°	17581.1	17696.4	17754.1	18180.9	18946.8	19881.1	21168.3	20116.4	19345.9	19145.2	14399.8
50°	16254.6	16346.9	16688.3	17447.3	18589.2	20065.6	22372.5	22432.5	22266.4	21890.4	16111.6
52.5°	14183.0	14326.0	15029.6	16420.7	17855.6	19989.5	23101.5	24418.8	24637.9	24356.5	17797.9
55°	11864.5	12065.2	12808.0	14632.8	16845.2	19574.2	23604.4	25569.9	26444.3	26183.6	19422.0
57.5°	9594.5	9806.7	10570.3	12337.4	15082.7	18656.1	23934.3	26852.6	28903.4	28564.3	21442.9
60°	7190.7	7412.1	8067.3	9887.5	12572.7	16861.3	23710.6	27964.5	31360.3	31215.0	23466.0
62.5°	4639.2	4883.8	5453.6	6960.0	9663.7	14409.0	22513.3	28578.2	33487.3	33312.0	24942.5
65°	2826.0	2853.7	3167.4	4320.9	6613.9	11156.3	19774.9	27763.8	34608.5	34555.4	25392.3
67.5°	1827.1	1870.9	2013.9	2588.4	3965.6	7749.0	15811.7	25076.3	33953.3	33934.8	24462.6
70°	1543.3	1557.2	1621.8	1746.3	2304.6	4699.2	11103.2	20792.3	31464.1	31464.1	22227.2
72.5°	1379.5	1398.0	1421.1	1460.3	1644.8	2662.2	6625.5	16185.4	27166.3	27346.3	18919.1
75°	1252.7	1248.0	1261.9	1268.8	1402.6	1739.4	3425.8	11970.6	21016.1	20656.2	13700.8
77.5°	1072.7	1079.6	1072.7	1102.7	1238.8	1324.2	1739.4	8032.7	12736.5	12270.5	6876.9
80°	881.2	892.8	904.3	922.8	1058.9	1005.8	1045.0	3661.1	4710.7	4611.5	2124.7
82.5°	662.1	678.2	696.7	740.5	832.8	664.4	659.8	1564.1	1700.2	1557.2	782.0
85°	267.6	316.0	477.5	521.4	523.7	364.5	406.0	652.9	694.4	678.2	306.8
87.5°	62.3	73.8	154.6	233.0	214.5	136.1	150.0	212.2	242.2	223.8	103.8
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°	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8	3951.8
2.5°	4030.2	3949.5	3811.0	3704.9	3628.8	3561.9	3520.4	3495.0	3485.8	3483.5	3485.8
5°	4166.3	4023.3	3804.1	3665.7	3589.6	3545.7	3520.4	3518.1	3520.4	3522.7	3515.8
7.5°	4353.2	4147.8	3861.8	3732.6	3674.9	3642.6	3631.1	3626.5	3628.8	3626.5	3626.5
10°	4602.3	4320.9	3974.8	3841.0	3792.6	3755.7	3737.2	3725.7	3716.5	3707.2	3702.6
12.5°	4876.8	4512.3	4097.1	3967.9	3898.7	3841.0	3799.5	3769.5	3748.8	3728.0	3723.4
15°	5183.7	4715.4	4233.2	4053.3	3954.1	3868.7	3797.2	3748.8	3711.8	3681.8	3679.5
17.5°	5476.6	4906.8	4325.5	4092.5	3947.1	3827.2	3732.6	3665.7	3619.6	3580.3	3575.7
20°	5790.4	5089.1	4367.0	4067.1	3877.9	3732.6	3608.0	3527.3	3474.2	3430.4	3423.5
22.5°	6106.4	5243.6	4362.4	3986.4	3758.0	3587.3	3455.8	3370.4	3308.1	3264.3	3248.1
25°	6408.6	5368.2	4304.7	3857.2	3591.9	3414.2	3280.4	3202.0	3146.6	3093.6	3093.6
27.5°	6680.9	5442.0	4196.3	3700.3	3421.2	3234.3	3128.2	3056.7	3005.9	2971.3	2950.6
30°	6948.5	5476.6	4048.7	3501.9	3241.2	3082.0	2996.7	2955.2	2909.0	2869.8	2865.2
32.5°	7188.4	5469.7	3864.1	3308.1	3070.5	2957.5	2922.9	2890.6	2842.1	2786.8	2772.9
35°	7421.4	5423.6	3644.9	3095.9	2927.5	2883.7	2892.9	2846.7	2759.1	2689.9	2678.3
37.5°	7675.1	5340.5	3405.0	2922.9	2807.5	2849.1	2872.1	2770.6	2627.6	2519.2	2493.8
40°	7968.1	5245.9	3155.9	2749.9	2712.9	2816.8	2816.8	2629.9	2433.8	2366.9	2348.4
42.5°	8311.8	5167.5	2948.2	2604.5	2634.5	2738.3	2726.8	2443.0	2362.3	2327.7	2318.5
45°	8856.3	5139.8	2733.7	2477.6	2569.9	2646.0	2551.5	2378.4	2332.3	2304.6	2295.4
47.5°	9716.8	5172.1	2544.5	2383.1	2496.1	2553.8	2355.4	2334.6	2302.3	2263.1	2258.5
50°	10515.0	5142.1	2410.7	2330.0	2431.5	2443.0	2274.6	2281.5	2263.1	2219.3	2210.0
52.5°	11167.8	5047.5	2325.4	2302.3	2376.1	2249.3	2198.5	2223.9	2217.0	2161.6	2152.4
55°	11885.3	4989.9	2283.9	2302.3	2339.2	2080.8	2127.0	2163.9	2154.7	2115.4	2113.1
57.5°	12755.0	5001.4	2253.9	2309.2	2302.3	1995.5	2055.5	2099.3	2097.0	2085.5	2085.5
60°	13645.5	5006.0	2207.7	2306.9	2258.5	1928.6	1981.6	2043.9	2048.5	2055.5	2055.5
62.5°	13940.7	4805.3	2117.8	2265.4	2161.6	1864.0	1912.4	1997.8	1993.2	2011.6	2013.9
65°	13389.4	4249.4	1984.0	2170.8	2037.0	1817.9	1859.4	1937.8	1912.4	1960.9	1970.1
67.5°	12187.5	3515.8	1776.3	2000.1	1898.6	1769.4	1824.8	1854.8	1808.6	1903.2	1905.5
70°	10533.4	2745.2	1513.3	1757.9	1741.7	1718.7	1797.1	1751.0	1686.4	1801.7	1778.6
72.5°	8807.8	2097.0	1208.8	1437.2	1531.8	1642.5	1748.6	1617.2	1527.2	1561.8	1520.3
75°	6616.3	1550.3	971.2	1125.8	1275.7	1534.1	1704.8	1455.7	1317.3	1285.0	1275.7
77.5°	3372.7	1012.7	726.7	842.0	957.4	1386.5	1644.8	1266.5	1091.2	1040.4	1017.4
80°	1204.2	629.8	512.1	581.3	645.9	1192.7	1437.2	1047.3	846.6	837.4	846.6
82.5°	558.3	406.0	343.7	380.6	382.9	795.9	1095.8	782.0	643.6	978.1	825.9
85°	239.9	203.0	193.8	189.2	175.3	355.3	615.9	419.9	655.2	293.0	269.9
87.5°	71.5	80.7	71.5	53.1	39.2	39.2	62.3	23.1	16.1	11.5	11.5
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)