

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: P531054

Luminaire Tested: **GALN-SA6B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29456 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

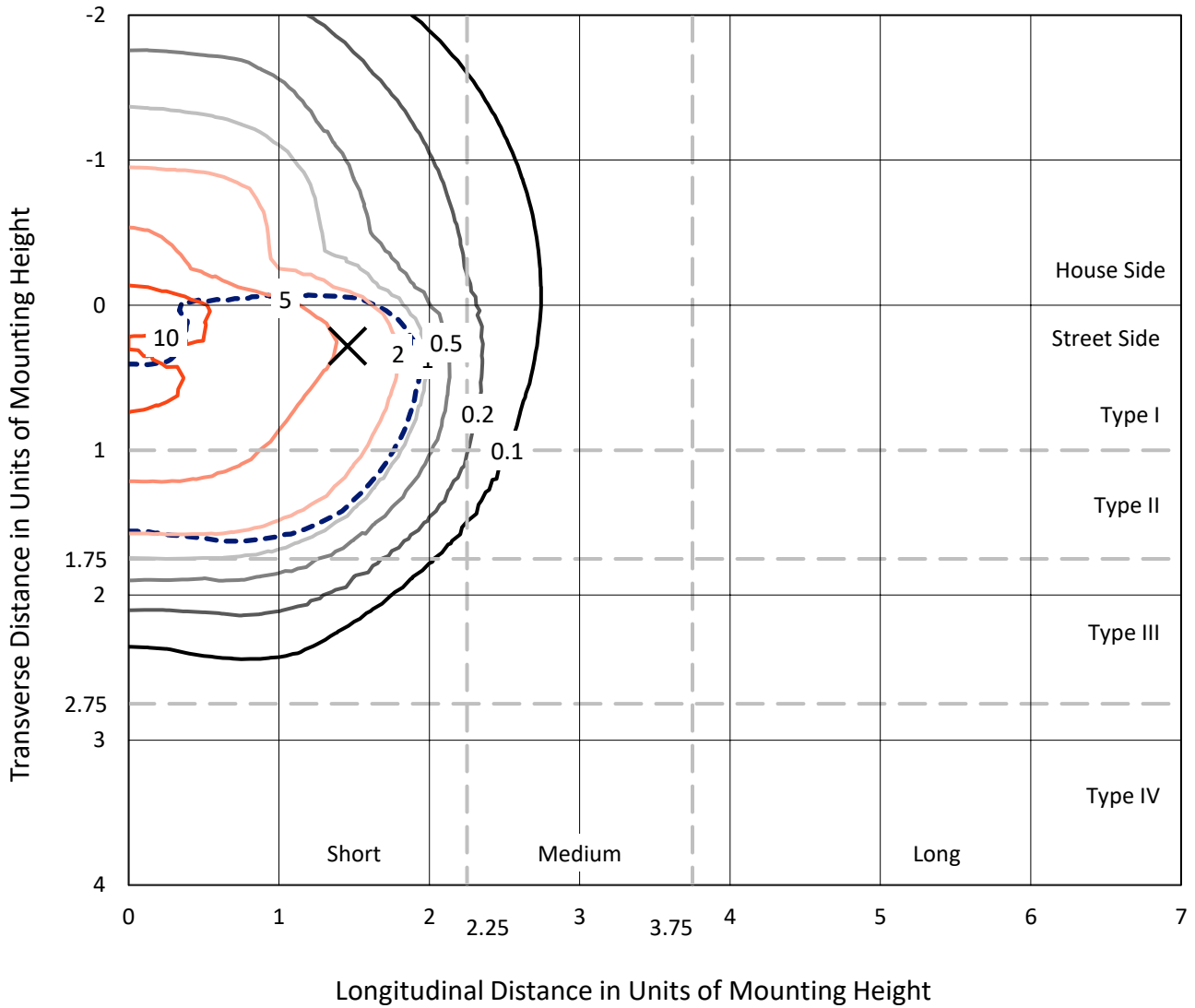
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

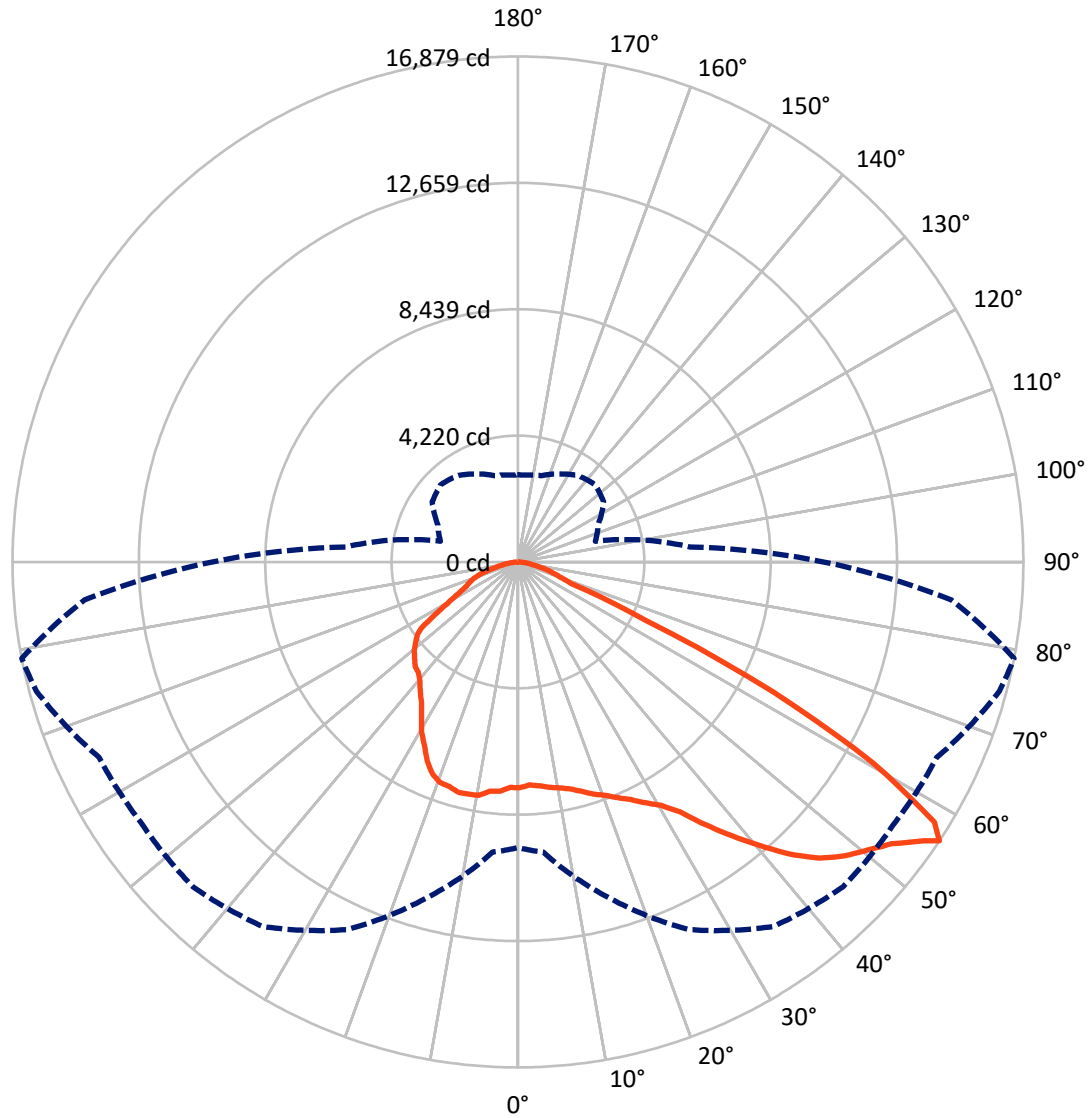
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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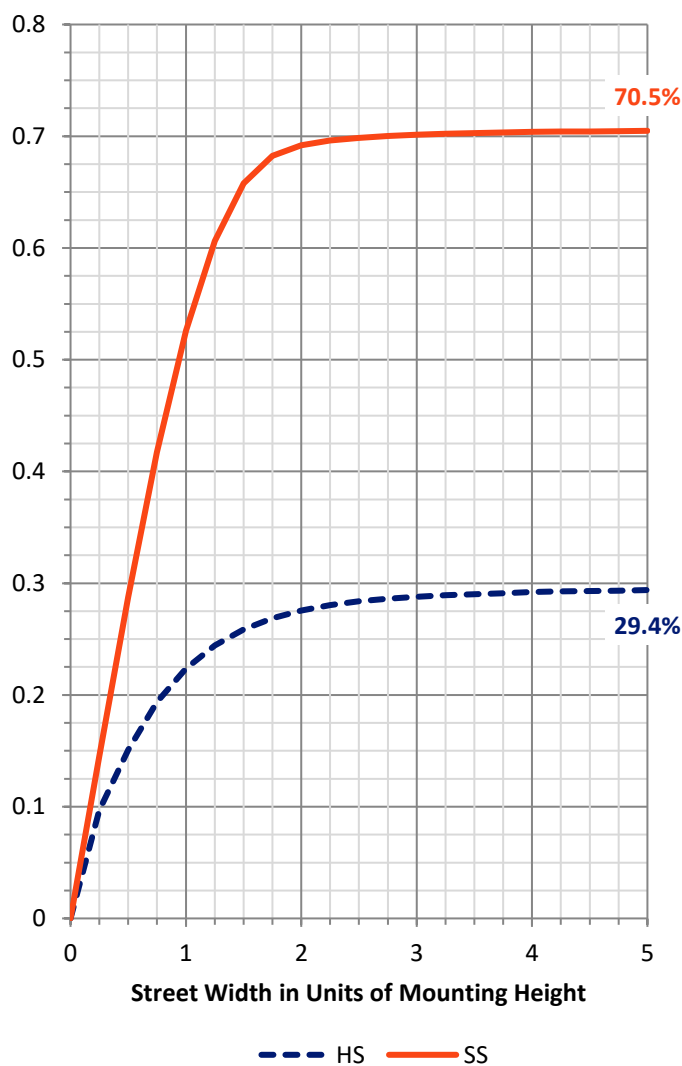
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8699.0	0.0	8699.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20757.0	0.0	20757.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	29456.0	0.0	29456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.2	2.3
10°-20°	1875.3	6.4
20°-30°	3208.2	10.9
30°-40°	4917.0	16.7
40°-50°	6645.3	22.6
50°-60°	7632.3	25.9
60°-70°	3479.0	11.8
70°-80°	857.7	2.9
80°-90°	155.9	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°	29456.0	100.0
0°-180°	29456.0	100.0

Coefficient of Utilization



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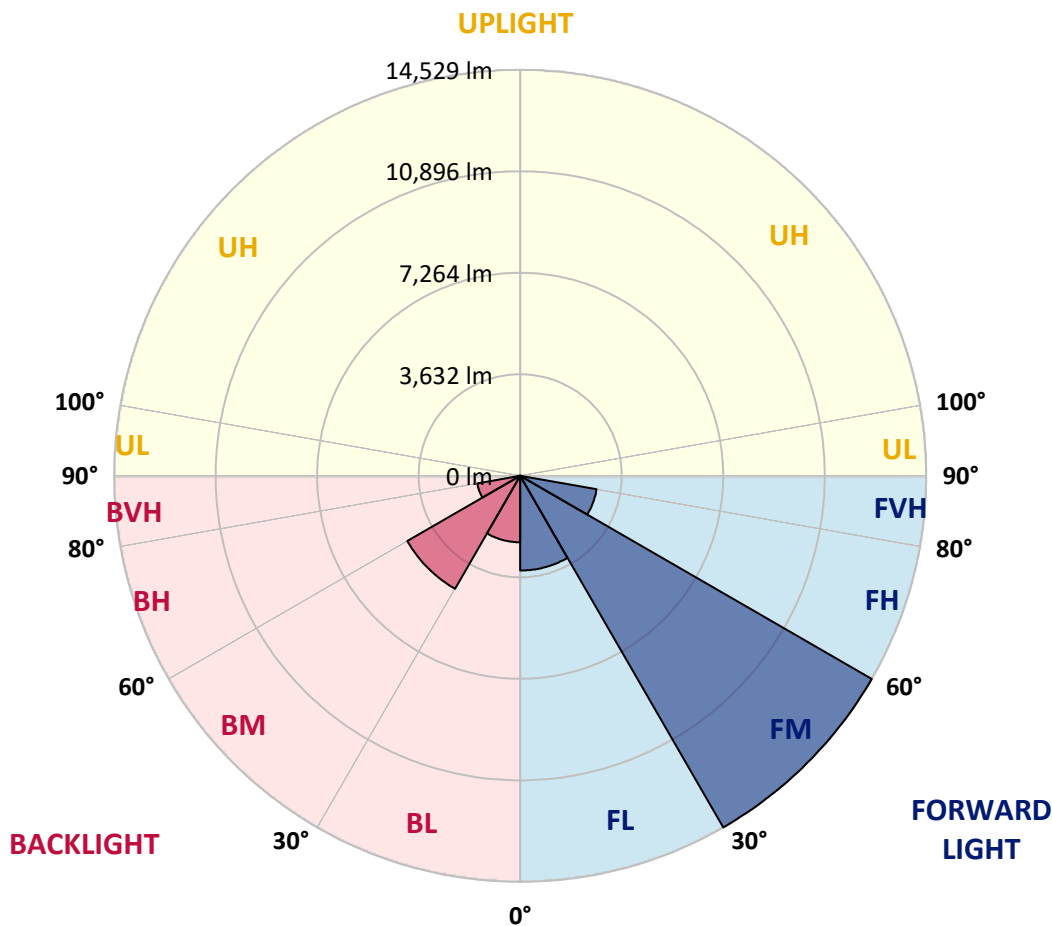
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3389.2	11.5			
FM (30°-60°)	14528.6	49.3			
FH (60°-80°)	2777.0	9.4			G2/5000
FVH (80°-90°)	62.2	0.2			G1/100
BL (0°-30°)	2379.6	8.1	B3/2500		
BM (30°-60°)	4666.0	15.8	B3/5000		
BH (60°-80°)	1559.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.7	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°	55°	65°	75°	79°	85°
0°	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6
2.5°	7169.7	7151.4	7195.4	7228.4	7268.8	7320.1	7345.8	7360.5	7488.9	7455.9	7555.0
5°	7015.6	6967.9	7000.9	7026.6	7096.3	7158.7	7228.4	7338.5	7455.9	7507.3	7628.4
7.5°	6879.8	6854.1	6846.8	6865.2	6960.6	7041.3	7162.4	7323.8	7514.6	7599.0	7668.7
10°	6656.0	6619.3	6674.4	6795.4	6821.1	6989.9	7129.3	7360.5	7525.6	7672.4	7877.9
12.5°	6556.9	6520.2	6531.3	6601.0	6780.8	6942.2	7107.3	7367.8	7716.4	7775.1	8050.3
15°	6714.7	6678.0	6689.0	6670.7	6843.1	6927.5	7188.0	7514.6	7848.5	7947.6	8241.1
17.5°	7074.3	7078.0	7030.3	6989.9	6949.5	7129.3	7309.1	7602.7	7899.9	8149.4	8369.5
20°	7760.4	7639.4	7544.0	7316.5	7254.1	7331.1	7558.6	7841.2	8109.0	8314.5	8564.0
22.5°	8288.8	8299.8	8164.1	7789.8	7654.0	7687.1	7881.5	8112.7	8406.2	8553.0	8839.2
25°	9055.7	8978.6	8831.9	8534.7	8230.1	8255.8	8398.9	8608.0	8688.8	8791.5	9103.4
27.5°	9756.5	9778.5	9488.7	9209.8	8831.9	8758.5	9015.3	9052.0	8916.3	9110.7	9217.1
30°	10468.3	10450.0	10259.2	9932.6	9562.0	9576.7	9690.5	9510.7	9323.5	9430.0	9503.3
32.5°	11205.9	10996.7	10989.4	10695.8	10413.3	10277.5	10138.1	10226.2	9936.3	9958.3	9888.6
35°	11796.6	11826.0	11657.2	11448.0	11308.6	11070.1	10688.5	10846.3	10791.2	10765.6	10464.7
37.5°	12225.9	12112.2	12196.6	12126.8	11994.8	11697.5	11301.3	11451.7	11477.4	11602.1	11253.6
40°	12578.2	12530.5	12754.3	12791.0	12699.2	12057.1	11345.3	11792.9	12178.2	12449.7	12035.1
42.5°	12746.9	12849.7	13084.5	13367.1	13161.6	12475.4	11572.8	12053.5	12912.1	13341.4	12776.3
45°	12974.4	12842.3	13190.9	13708.3	13712.0	12827.7	11792.9	12405.7	13484.5	14108.2	13282.7
47.5°	12743.3	12809.3	13168.9	13825.7	13994.5	13198.3	12387.4	12904.7	14115.6	14669.6	13752.3
50°	12225.9	12358.0	13014.8	13697.3	14207.3	13590.9	13069.8	13444.1	14699.0	15120.9	13829.4
52.5°	11686.5	11759.9	12787.3	13796.4	14302.7	14097.2	13983.5	14189.0	15410.8	15631.0	13924.8
55°	10218.8	10567.4	12035.1	13752.3	14768.7	15010.9	14922.8	15223.7	16218.1	16438.2	14445.8
56°	9540.0	9723.5	11583.8	13546.8	14860.4	15344.8	15300.7	15436.5	16647.4	16878.5	14526.5
57.5°	8285.1	8299.8	9877.6	12636.9	14515.5	15443.8	15399.8	15506.2	16563.0	16405.2	13818.4
60°	5184.6	5412.1	6722.1	9719.8	12343.3	14328.4	14577.9	13723.0	13965.1	13631.2	10750.9
62.5°	2685.9	2652.9	3522.5	5683.7	8193.4	10259.2	10490.4	10450.0	10075.7	9587.7	7022.9
65°	1339.3	1346.6	1842.0	2814.3	4197.6	5371.8	6017.6	6087.3	5092.9	4685.6	3331.7
67.5°	972.3	1009.0	1324.6	1720.9	1977.7	2212.6	2711.6	2660.2	2014.4	1915.3	1775.9
70°	755.9	788.9	1075.1	1313.6	1192.5	1192.5	1298.9	1342.9	1434.7	1475.0	1522.7
72.5°	550.4	576.1	821.9	906.3	781.5	840.3	972.3	1075.1	1170.5	1185.2	1240.2
75°	377.9	399.9	539.4	499.0	469.7	579.7	711.8	807.2	876.9	913.6	946.7
77.5°	245.8	253.2	308.2	260.5	300.9	374.3	462.3	543.0	612.8	642.1	649.5
80°	110.1	121.1	132.1	165.1	209.1	267.9	330.2	396.3	440.3	451.3	473.3
82.5°	62.4	62.4	80.7	117.4	154.1	194.5	238.5	286.2	337.6	348.6	344.9
85°	33.0	33.0	47.7	69.7	95.4	113.7	110.1	113.7	121.1	139.4	135.8
87.5°	11.0	11.0	14.7	14.7	18.3	22.0	18.3	25.7	33.0	33.0	33.0
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°	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6	7536.6
2.5°	7525.6	7558.6	7514.6	7610.0	7610.0	7591.7	7499.9	7529.3	7551.3	7551.3	7569.6
5°	7668.7	7657.7	7687.1	7573.3	7503.6	7477.9	7327.5	7254.1	7191.7	7188.0	7133.0
7.5°	7749.4	7720.1	7709.1	7624.7	7316.5	7129.3	6806.4	6619.3	6579.0	6435.9	6490.9
10°	7877.9	7932.9	7877.9	7419.2	6989.9	6560.6	6245.1	5955.2	5841.4	5749.7	5694.7
12.5°	8142.0	8116.4	7797.1	7177.0	6575.3	6065.3	5595.6	5291.0	5177.3	5096.6	5089.2
15°	8365.9	8237.4	7749.4	6795.4	5929.5	5386.4	5001.2	4784.7	4733.3	4740.7	4773.7
17.5°	8442.9	8354.9	7499.9	6399.2	5448.8	4810.4	4630.6	4597.6	4645.3	4700.3	4715.0
20°	8564.0	8424.6	7397.2	5859.8	4854.4	4450.8	4439.8	4557.2	4645.3	4726.0	4737.0
22.5°	8817.2	8464.9	7063.3	5349.8	4447.1	4344.4	4450.8	4549.9	4685.6	4751.7	4693.0
25°	8890.6	8376.9	6593.6	4737.0	4190.3	4278.3	4392.1	4527.8	4623.2	4659.9	4685.6
27.5°	8953.0	8241.1	5958.8	4329.7	4109.6	4274.7	4392.1	4505.8	4557.2	4590.2	4619.6
30°	9129.1	8200.8	5408.5	4058.2	4058.2	4201.3	4351.7	4381.1	4450.8	4491.2	4542.5
32.5°	9217.1	7921.9	4843.4	3885.7	4006.8	4238.0	4249.0	4304.0	4307.7	4340.7	4285.7
35°	9448.3	7723.8	4318.7	3761.0	4028.8	4201.3	4256.3	4223.3	4043.5	3955.4	3973.8
37.5°	9617.1	7624.7	3940.8	3746.3	4032.5	4241.6	4271.0	4021.5	3834.4	3687.6	3724.3
40°	10072.1	7378.8	3654.6	3720.6	4065.5	4285.7	4205.0	3933.4	3595.9	3445.4	3419.7
42.5°	10420.6	7202.7	3474.8	3691.3	4091.2	4348.1	4171.9	3757.3	3412.4	3273.0	3309.7
45°	10824.3	7162.4	3379.4	3698.6	4135.2	4381.1	4131.6	3621.5	3254.6	3199.6	3188.6
47.5°	10967.4	6872.5	3276.6	3636.2	4124.2	4370.1	3995.8	3518.8	3195.9	3203.2	3232.6
50°	10728.9	6575.3	3199.6	3507.8	4050.8	4271.0	3783.0	3383.0	3162.9	3254.6	3306.0
52.5°	10424.3	6270.7	3041.8	3335.3	3900.4	4116.9	3683.9	3375.7	3129.9	3100.5	3111.5
55°	10516.0	6021.2	2821.6	3100.5	3658.2	3830.7	3573.8	3306.0	3049.1	2939.1	2975.8
56°	10218.8	5764.4	2678.5	2953.7	3493.1	3647.2	3518.8	3243.6	2983.1	2909.7	2909.7
57.5°	9378.6	4902.1	2491.4	2718.9	3144.5	3328.0	3412.4	3206.9	2909.7	2781.3	2785.0
60°	6916.5	3485.8	2234.6	2396.0	2605.2	2751.9	3144.5	3104.2	2726.2	2638.2	2605.2
62.5°	4263.7	2546.5	2051.1	2113.5	2219.9	2341.0	2744.6	2810.6	2531.8	2436.4	2414.4
65°	2388.7	1948.4	1911.7	1937.4	1988.7	2051.1	2278.6	2425.4	2234.6	2087.8	2080.5
67.5°	1746.6	1742.9	1772.2	1794.3	1816.3	1816.3	1871.3	1930.0	1904.3	1786.9	1775.9
70°	1552.1	1563.1	1585.1	1588.8	1596.1	1570.4	1526.4	1508.1	1537.4	1464.0	1449.4
72.5°	1280.6	1317.3	1342.9	1346.6	1306.3	1273.2	1214.5	1152.1	1130.1	1115.4	1111.8
75°	983.4	1009.0	1020.0	1016.4	1001.7	954.0	884.3	821.9	781.5	737.5	759.5
77.5°	664.1	700.8	719.2	719.2	697.2	623.8	590.7	543.0	502.7	455.0	462.3
80°	466.0	491.7	521.0	517.4	480.7	444.0	396.3	352.2	319.2	282.5	278.9
82.5°	348.6	363.3	377.9	370.6	344.9	308.2	275.2	234.8	198.1	172.5	172.5
85°	124.8	135.8	165.1	172.5	187.1	187.1	157.8	132.1	106.4	88.1	88.1
87.5°	36.7	36.7	40.4	40.4	36.7	40.4	33.0	36.7	40.4	25.7	25.7
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)