

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: P531002

Luminaire Tested: **GALN-SA6B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531002
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-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 26826 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

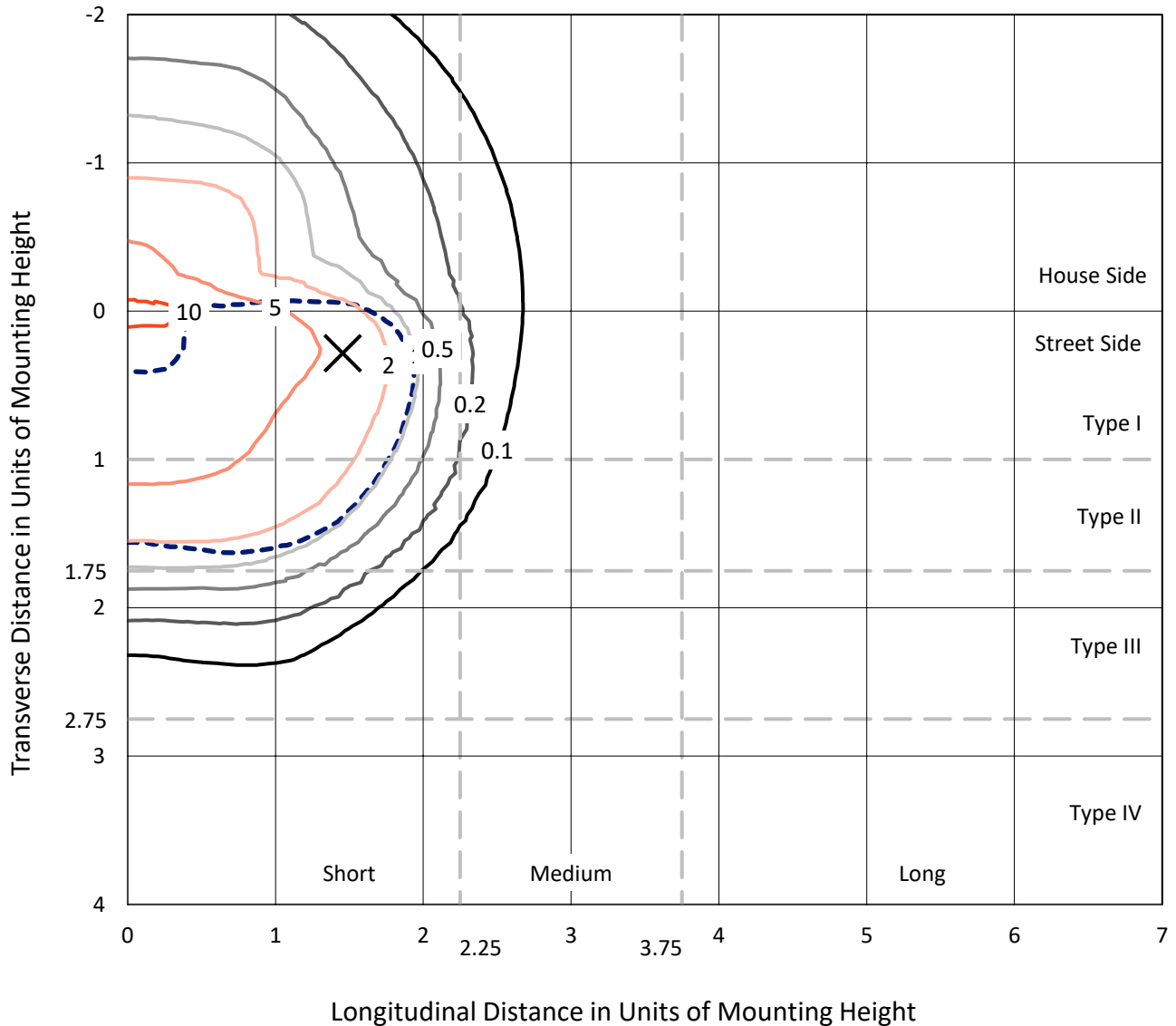
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

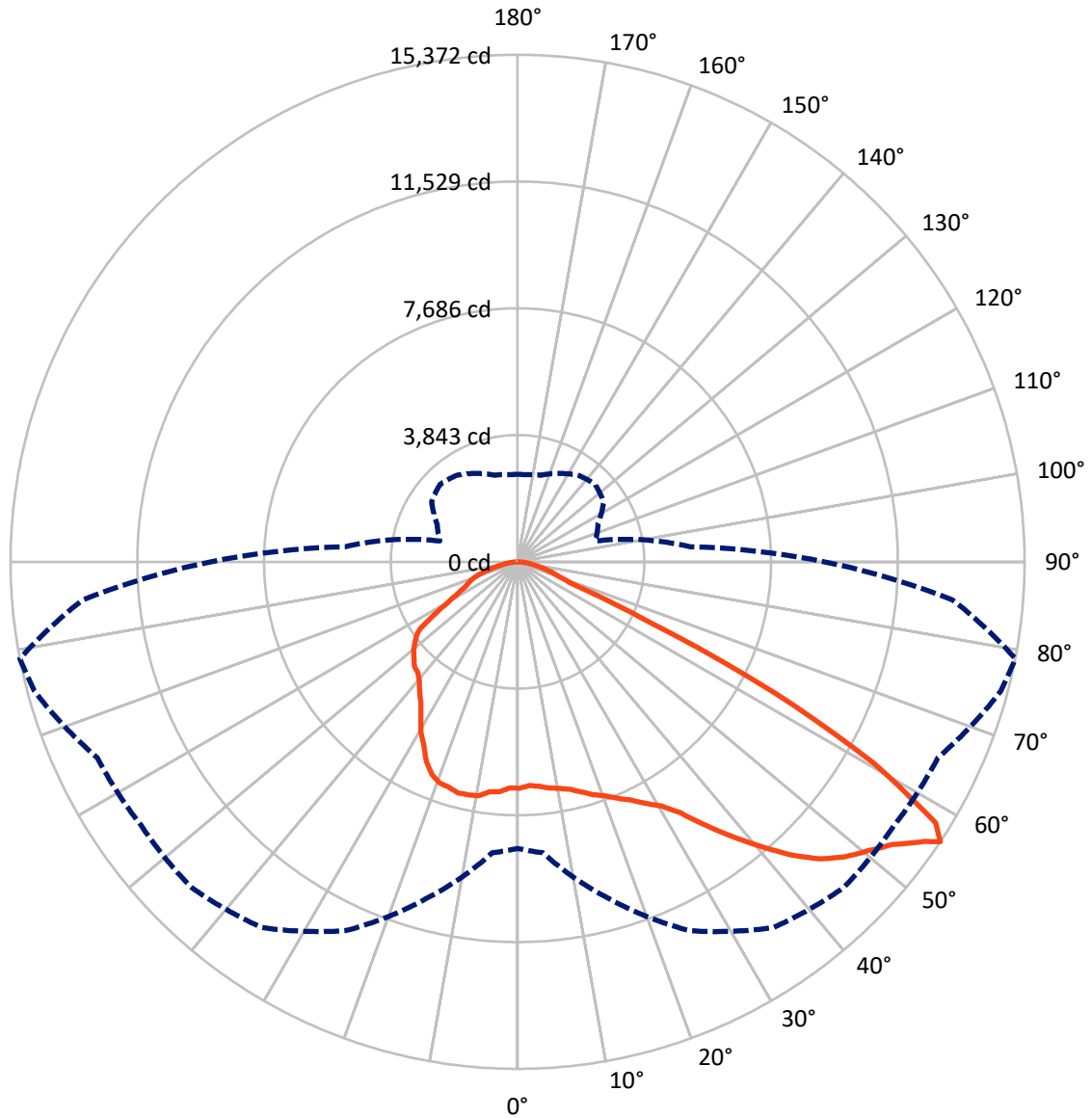
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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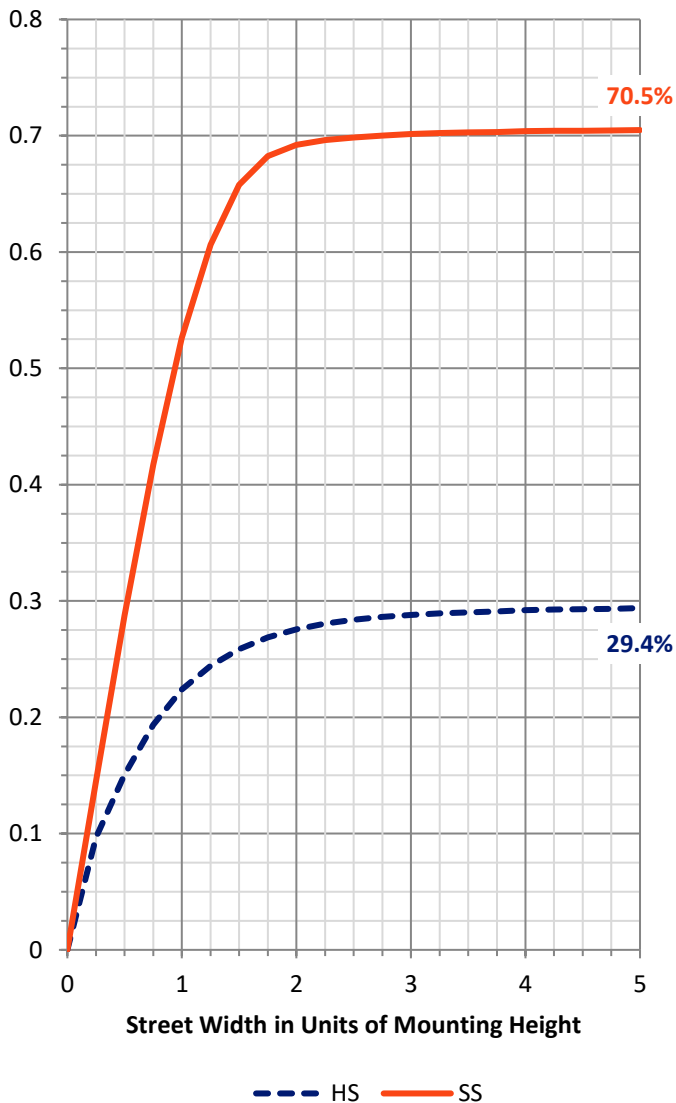
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7922.3	0.0	7922.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	18903.7	0.0	18903.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	26826.0	0.0	26826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.0	2.3
10°-20°	1707.8	6.4
20°-30°	2921.8	10.9
30°-40°	4478.0	16.7
40°-50°	6051.9	22.6
50°-60°	6950.9	25.9
60°-70°	3168.4	11.8
70°-80°	781.2	2.9
80°-90°	142.0	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°	26826.0	100.0
0°-180°	26826.0	100.0

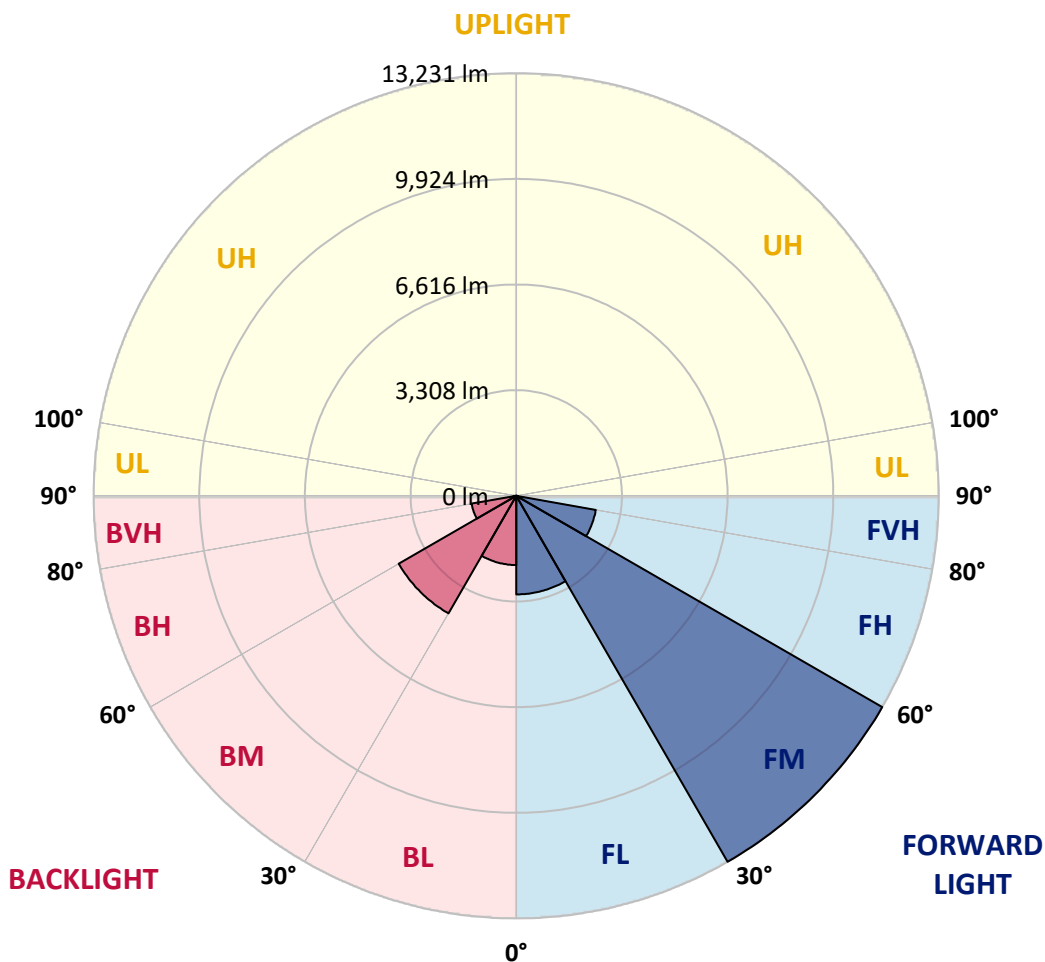


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.6	11.5			
FM (30°-60°)	13231.4	49.3			
FH (60°-80°)	2529.1	9.4			G2/5000
FVH (80°-90°)	56.7	0.2			G1/100
BL (0°-30°)	2167.1	8.1	B3/2500		
BM (30°-60°)	4249.4	15.8	B3/5000		
BH (60°-80°)	1420.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	85.3	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°	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7
2.5°	6529.5	6512.8	6552.9	6583.0	6619.8	6666.6	6689.9	6703.3	6820.3	6790.2	6880.4
5°	6389.2	6345.8	6375.8	6399.2	6462.7	6519.5	6583.0	6683.3	6790.2	6837.0	6947.3
7.5°	6265.6	6242.2	6235.5	6252.2	6339.1	6412.6	6522.9	6669.9	6843.7	6920.5	6984.0
10°	6061.7	6028.3	6078.4	6188.7	6212.1	6365.8	6492.8	6703.3	6853.7	6987.4	7174.5
12.5°	5971.5	5938.1	5948.1	6011.6	6175.3	6322.4	6472.7	6710.0	7027.5	7080.9	7331.5
15°	6115.2	6081.8	6091.8	6075.1	6232.1	6309.0	6546.3	6843.7	7147.7	7238.0	7505.3
17.5°	6442.7	6446.0	6402.6	6365.8	6329.1	6492.8	6656.5	6923.9	7194.5	7421.8	7622.3
20°	7067.6	6957.3	6870.4	6663.2	6606.4	6676.6	6883.8	7141.1	7385.0	7572.1	7799.4
22.5°	7548.7	7558.8	7435.1	7094.3	6970.6	7000.7	7177.8	7388.3	7655.7	7789.3	8050.0
25°	8247.1	8177.0	8043.3	7772.6	7495.3	7518.7	7649.0	7839.5	7913.0	8006.5	8290.6
27.5°	8885.4	8905.4	8641.5	8387.5	8043.3	7976.5	8210.4	8243.8	8120.2	8297.3	8394.2
30°	9533.7	9517.0	9343.2	9045.8	8708.3	8721.7	8825.2	8661.5	8491.1	8588.0	8654.8
32.5°	10205.3	10014.9	10008.2	9740.9	9483.6	9359.9	9232.9	9313.1	9049.1	9069.2	9005.7
35°	10743.3	10770.1	10616.4	10425.9	10298.9	10081.7	9734.2	9877.9	9827.7	9804.3	9530.3
37.5°	11134.3	11030.7	11107.6	11044.1	10923.8	10653.1	10292.2	10429.2	10452.6	10566.2	10248.8
40°	11455.1	11411.7	11615.5	11648.9	11565.4	10980.6	10332.3	10740.0	11090.9	11338.2	10960.6
42.5°	11608.8	11702.4	11916.3	12173.6	11986.4	11361.5	10539.5	10977.3	11759.2	12150.2	11635.6
45°	11816.0	11695.7	12013.2	12484.3	12487.7	11682.3	10740.0	11298.1	12280.5	12848.6	12096.7
47.5°	11605.5	11665.6	11993.1	12591.3	12745.0	12019.8	11281.3	11752.5	12855.3	13359.8	12524.4
50°	11134.3	11254.6	11852.8	12474.3	12938.8	12377.4	11902.9	12243.7	13386.6	13770.9	12594.6
52.5°	10643.1	10709.9	11645.6	12564.5	13025.7	12838.5	12735.0	12922.1	14034.9	14235.4	12681.5
55°	9306.4	9623.9	10960.6	12524.4	13450.1	13670.6	13590.4	13864.4	14770.0	14970.5	13156.0
56°	8688.2	8855.3	10549.5	12337.3	13533.6	13974.7	13934.6	14058.2	15161.0	15371.5	13229.5
57.5°	7545.4	7558.8	8995.7	11508.6	13219.5	14064.9	14024.8	14121.7	15084.1	14940.4	12584.6
60°	4721.7	4928.9	6121.9	8852.0	11241.2	13049.1	13276.3	12497.7	12718.2	12414.2	9791.0
62.5°	2446.1	2416.0	3208.0	5176.2	7461.9	9343.2	9553.7	9517.0	9176.1	8731.7	6395.9
65°	1219.7	1226.4	1677.5	2563.0	3822.8	4892.1	5480.3	5543.8	4638.2	4267.3	3034.2
67.5°	885.5	918.9	1206.3	1567.2	1801.1	2015.0	2469.5	2422.7	1834.6	1744.3	1617.3
70°	688.4	718.5	979.1	1196.3	1086.0	1086.0	1182.9	1223.0	1306.6	1343.3	1386.8
72.5°	501.2	524.6	748.5	825.4	711.8	765.2	885.5	979.1	1066.0	1079.3	1129.5
75°	344.2	364.2	491.2	454.5	427.7	528.0	648.3	735.2	798.6	832.1	862.1
77.5°	223.9	230.6	280.7	237.3	274.0	340.8	421.0	494.6	558.1	584.8	591.5
80°	100.2	110.3	120.3	150.4	190.5	243.9	300.7	360.9	401.0	411.0	431.1
82.5°	56.8	56.8	73.5	106.9	140.3	177.1	217.2	260.6	307.4	317.5	314.1
85°	30.1	30.1	43.4	63.5	86.9	103.6	100.2	103.6	110.3	127.0	123.6
87.5°	10.0	10.0	13.4	13.4	16.7	20.0	16.7	23.4	30.1	30.1	30.1
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°	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7	6863.7
2.5°	6853.7	6883.8	6843.7	6930.5	6930.5	6913.8	6830.3	6857.0	6877.1	6877.1	6893.8
5°	6984.0	6974.0	7000.7	6897.1	6833.6	6810.2	6673.2	6606.4	6549.6	6546.3	6496.1
7.5°	7057.5	7030.8	7020.8	6943.9	6663.2	6492.8	6198.7	6028.3	5991.5	5861.2	5911.3
10°	7174.5	7224.6	7174.5	6756.8	6365.8	5974.8	5687.5	5423.5	5319.9	5236.3	5186.2
12.5°	7415.1	7391.7	7101.0	6536.2	5988.2	5523.7	5096.0	4818.6	4715.0	4641.5	4634.8
15°	7618.9	7502.0	7057.5	6188.7	5400.1	4905.5	4554.6	4357.5	4310.7	4317.4	4347.5
17.5°	7689.1	7608.9	6830.3	5827.8	4962.3	4380.9	4217.1	4187.1	4230.5	4280.6	4294.0
20°	7799.4	7672.4	6736.7	5336.6	4421.0	4053.4	4043.4	4150.3	4230.5	4304.0	4314.0
22.5°	8029.9	7709.1	6432.6	4872.1	4050.1	3956.5	4053.4	4143.6	4267.3	4327.4	4273.9
25°	8096.8	7628.9	6004.9	4314.0	3816.1	3896.3	3999.9	4123.6	4210.5	4243.9	4267.3
27.5°	8153.6	7505.3	5426.8	3943.1	3742.6	3893.0	3999.9	4103.5	4150.3	4180.4	4207.1
30°	8314.0	7468.5	4925.6	3695.8	3695.8	3826.2	3963.2	3989.9	4053.4	4090.2	4136.9
32.5°	8394.2	7214.6	4411.0	3538.8	3649.1	3859.6	3869.6	3919.7	3923.1	3953.2	3903.0
35°	8604.7	7034.1	3933.1	3425.2	3669.1	3826.2	3876.3	3846.2	3682.5	3602.3	3619.0
37.5°	8758.4	6943.9	3588.9	3411.8	3672.5	3862.9	3889.7	3662.4	3492.0	3358.3	3391.8
40°	9172.8	6720.0	3328.3	3388.4	3702.5	3903.0	3829.5	3582.2	3274.8	3137.8	3114.4
42.5°	9490.2	6559.6	3164.5	3361.7	3725.9	3959.8	3799.4	3421.8	3107.7	2980.7	3014.2
45°	9857.8	6522.9	3077.6	3368.4	3766.0	3989.9	3762.7	3298.2	2964.0	2913.9	2903.9
47.5°	9988.1	6258.9	2984.1	3311.6	3756.0	3979.9	3639.0	3204.6	2910.6	2917.2	2944.0
50°	9770.9	5988.2	2913.9	3194.6	3689.2	3889.7	3445.2	3081.0	2880.5	2964.0	3010.8
52.5°	9493.6	5710.8	2770.2	3037.5	3552.2	3749.3	3355.0	3074.3	2850.4	2823.7	2833.7
55°	9577.1	5483.6	2569.7	2823.7	3331.6	3488.7	3254.7	3010.8	2776.9	2676.6	2710.1
56°	9306.4	5249.7	2439.4	2690.0	3181.2	3321.6	3204.6	2954.0	2716.7	2649.9	2649.9
57.5°	8541.2	4464.4	2269.0	2476.1	2863.8	3030.9	3107.7	2920.6	2649.9	2533.0	2536.3
60°	6299.0	3174.5	2035.1	2182.1	2372.6	2506.2	2863.8	2827.0	2482.8	2402.6	2372.6
62.5°	3883.0	2319.1	1868.0	1924.8	2021.7	2132.0	2499.5	2559.7	2305.7	2218.8	2198.8
65°	2175.4	1774.4	1741.0	1764.4	1811.2	1868.0	2075.2	2208.8	2035.1	1901.4	1894.7
67.5°	1590.6	1587.3	1614.0	1634.1	1654.1	1654.1	1704.2	1757.7	1734.3	1627.4	1617.3
70°	1413.5	1423.5	1443.6	1446.9	1453.6	1430.2	1390.1	1373.4	1400.1	1333.3	1319.9
72.5°	1166.2	1199.6	1223.0	1226.4	1189.6	1159.5	1106.1	1049.3	1029.2	1015.9	1012.5
75°	895.6	918.9	929.0	925.6	912.3	868.8	805.3	748.5	711.8	671.7	691.7
77.5°	604.8	638.3	655.0	655.0	634.9	568.1	538.0	494.6	457.8	414.4	421.0
80°	424.4	447.8	474.5	471.2	437.8	404.3	360.9	320.8	290.7	257.3	254.0
82.5°	317.5	330.8	344.2	337.5	314.1	280.7	250.6	213.9	180.4	157.1	157.1
85°	113.6	123.6	150.4	157.1	170.4	170.4	143.7	120.3	96.9	80.2	80.2
87.5°	33.4	33.4	36.8	36.8	33.4	36.8	30.1	33.4	36.8	23.4	23.4
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)