

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: P532860

Luminaire Tested: **GALN-SA8B-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35468 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

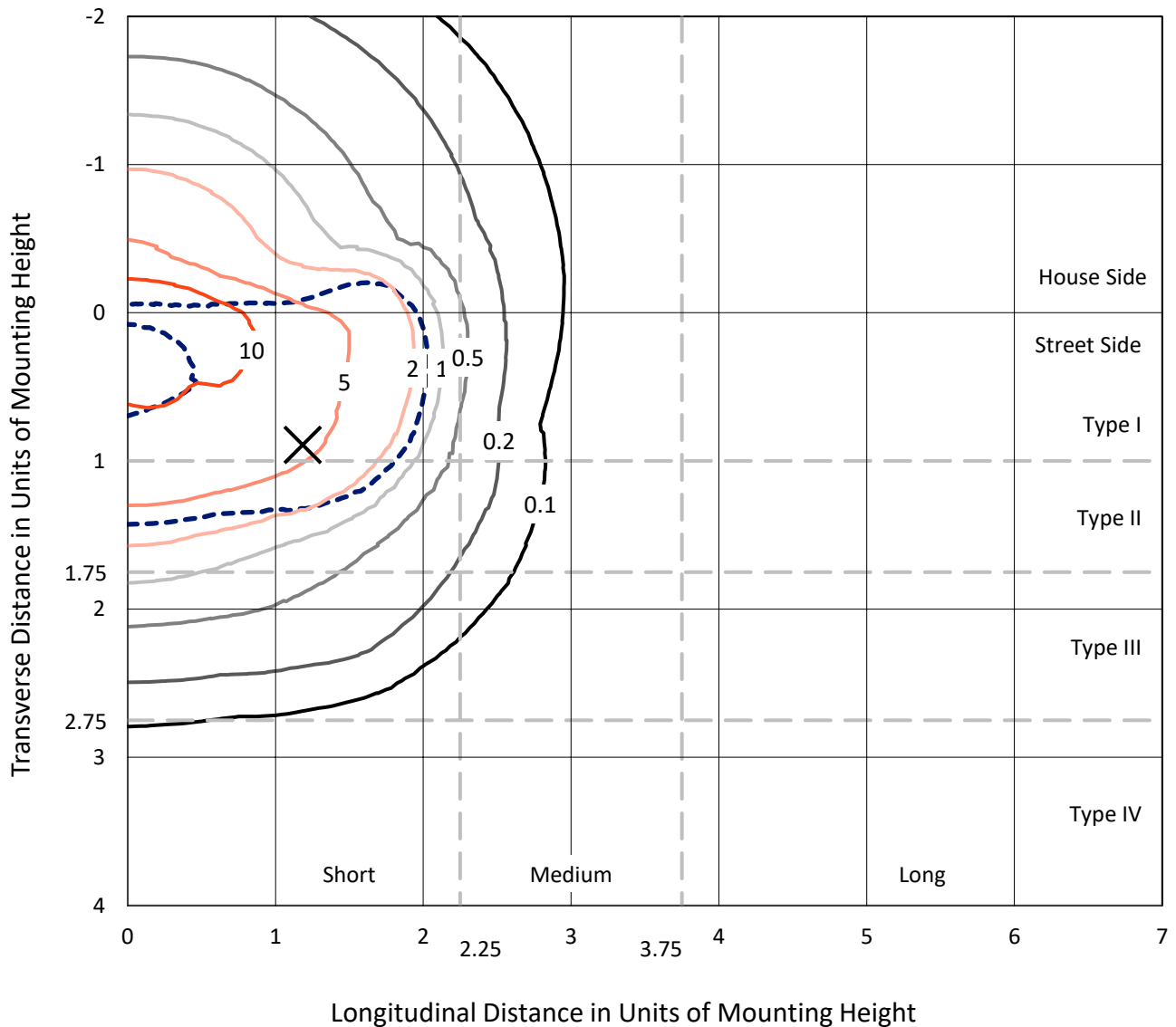
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

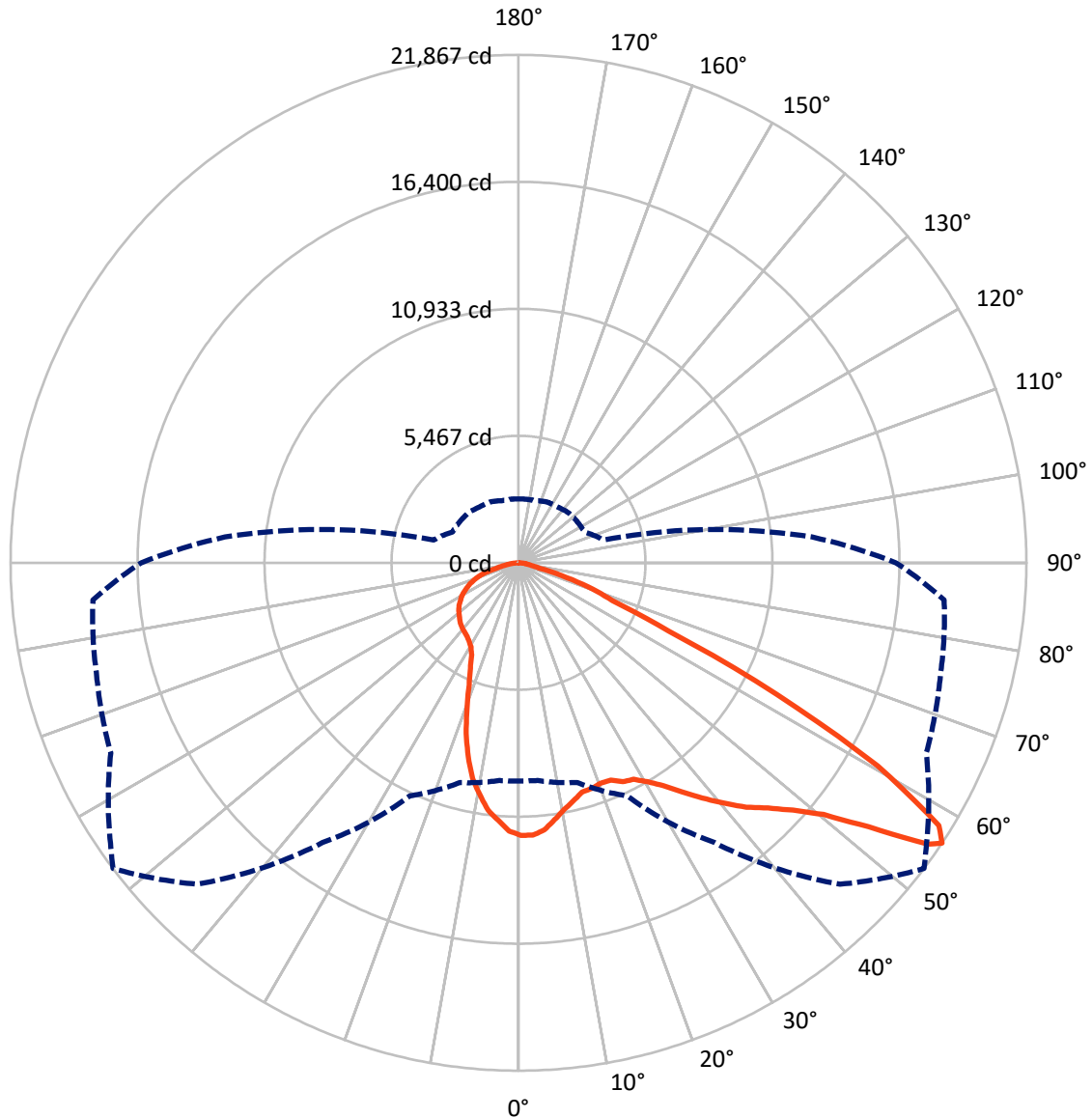
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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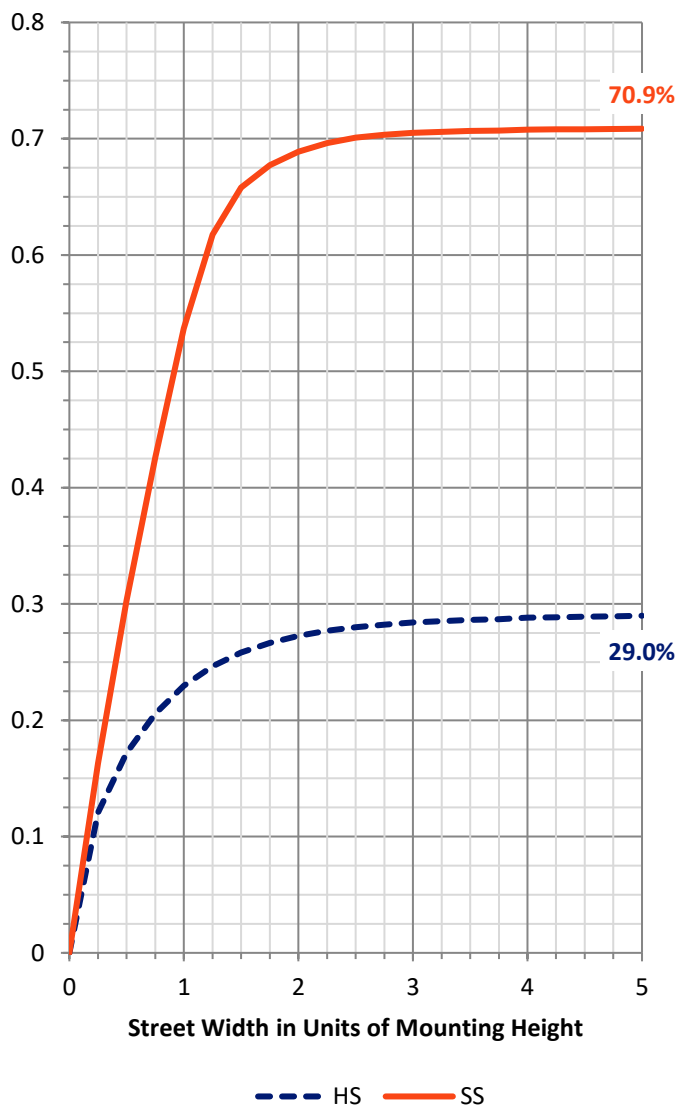
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10350.3	0.0	10350.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25117.7	0.0	25117.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	35468.0	0.0	35468.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.8	2.9
10°-20°	2594.5	7.3
20°-30°	3825.8	10.8
30°-40°	5466.4	15.4
40°-50°	7523.7	21.2
50°-60°	8891.0	25.1
60°-70°	4738.3	13.4
70°-80°	1202.1	3.4
80°-90°	187.4	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°	35468.0	100.0
0°-180°	35468.0	100.0

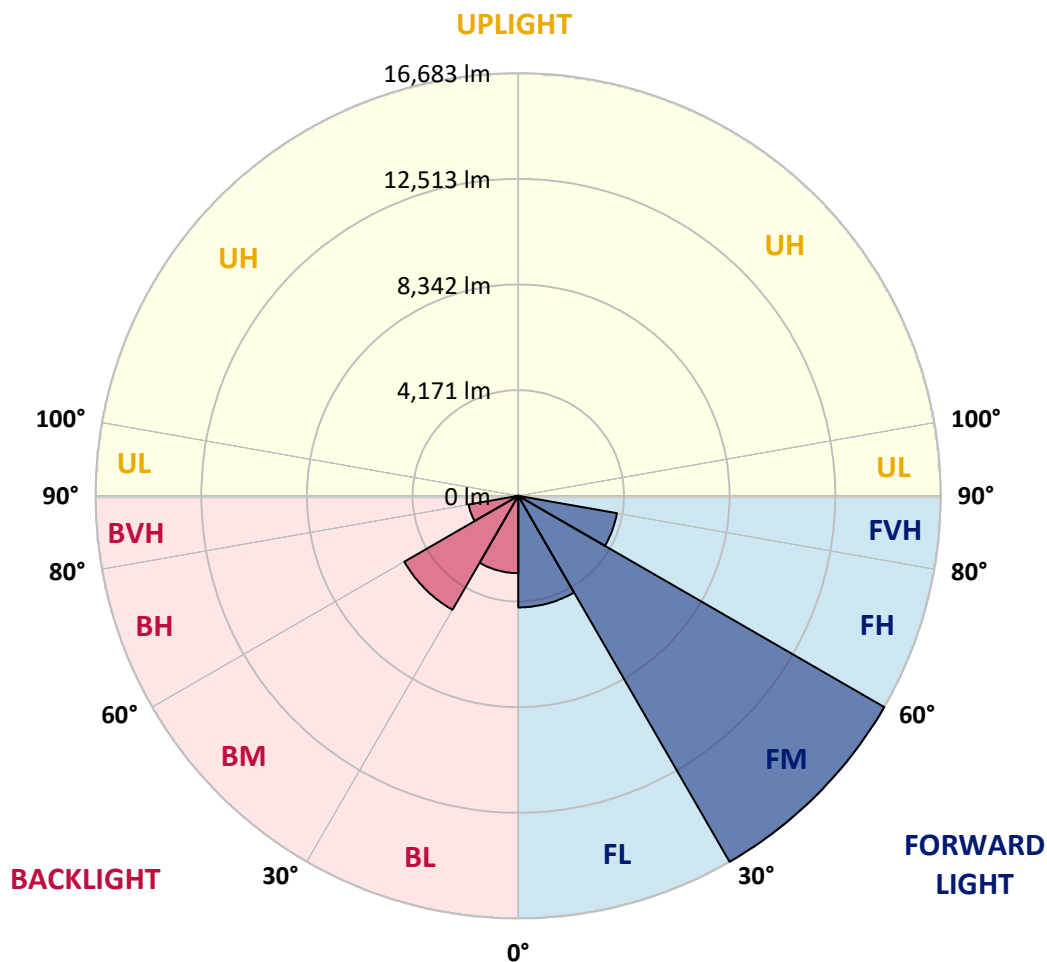


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4406.4	12.4			
FM (30°-60°)	16683.5	47.0			
FH (60°-80°)	3952.5	11.1			G2/5000
FVH (80°-90°)	75.3	0.2			G1/100
BL (0°-30°)	3052.7	8.6	B4/5000		
BM (30°-60°)	5197.6	14.7	B4/8500		
BH (60°-80°)	1987.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	112.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2
2.5°	11588.6	11488.5	11547.7	11524.9	11711.5	11766.1	11738.8	11761.5	11866.2	11816.1	11711.5
5°	10828.8	10969.8	10997.1	11065.4	11174.6	11388.4	11556.8	11602.3	11652.3	11884.4	11861.6
7.5°	10137.2	10232.7	10182.7	10382.9	10619.5	10965.3	11170.0	11206.4	11666.0	11793.4	11888.9
10°	9700.4	9604.9	9832.4	9886.9	10155.4	10551.2	10796.9	10947.1	11365.7	11870.7	11929.9
12.5°	9295.5	9263.6	9400.1	9554.8	9855.1	10264.6	10514.8	10574.0	11220.1	11752.4	12030.0
15°	8995.2	8958.8	9095.3	9209.0	9559.4	9923.3	10241.8	10410.2	11060.8	11684.2	11943.5
17.5°	8758.6	8754.0	8831.4	9036.1	9395.6	9700.4	10214.5	10223.6	10978.9	11788.8	12016.3
20°	8744.9	8740.4	8754.0	8981.5	9309.1	9682.2	10128.1	10210.0	10978.9	11716.0	12020.9
22.5°	8858.7	8785.9	8867.8	9013.4	9250.0	9714.1	10159.9	10341.9	11242.8	12075.5	12225.6
25°	9040.7	9058.9	9104.4	9154.4	9290.9	9786.9	10442.0	10592.2	11552.2	12384.8	12507.7
27.5°	9372.8	9363.7	9381.9	9409.2	9527.5	9855.1	10555.8	10942.5	12198.3	12935.4	12812.5
30°	9859.7	9827.8	9900.6	9996.1	9886.9	10073.5	10933.4	11224.6	12798.9	13490.5	13153.8
32.5°	10301.0	10419.3	10555.8	10596.7	10464.8	10501.2	11433.9	11729.7	13299.4	14173.0	13572.4
35°	10851.5	10947.1	11129.1	11256.5	11233.7	11124.5	12116.4	12507.7	14022.8	14673.5	14013.7
37.5°	11388.4	11502.2	11802.5	12180.1	11970.8	11920.8	12844.4	13167.4	14245.8	14941.9	14336.8
40°	12252.9	12248.4	12767.0	12962.7	13149.2	13062.8	13599.7	13708.9	14364.1	14882.7	14345.9
42.5°	13267.5	13203.8	13731.6	14036.5	14277.6	14286.7	14386.8	14350.4	14418.7	14582.5	14250.3
45°	14232.1	14368.6	14900.9	15446.9	15688.1	15715.4	15051.1	14982.8	14514.2	14496.0	14068.3
47.5°	15410.5	15442.4	15879.2	16598.1	17157.7	16966.6	15911.0	15760.9	14932.8	15073.8	14373.2
50°	15478.8	15715.4	16106.7	16953.0	18672.8	18622.8	17025.8	16743.7	15606.2	15892.8	15224.0
52.5°	14050.1	13995.5	14459.6	15842.8	18559.1	20269.8	18873.0	18199.6	17053.1	16834.7	16602.6
55°	10705.9	10833.3	11242.8	12639.6	16115.8	20292.6	21389.1	20838.6	18600.0	18226.9	17958.5
56°	9391.0	9409.2	9796.0	11069.9	14705.3	19569.2	21866.9	21421.0	19369.0	18800.2	18390.7
57.5°	7784.9	7680.2	7880.4	8576.6	12412.1	18040.4	21343.6	21780.4	20269.8	19419.0	18850.3
60°	6128.7	6106.0	6024.1	6151.5	7844.0	13590.6	17767.4	18750.2	20178.8	18836.6	18054.0
62.5°	5004.9	4891.2	5054.9	5236.9	5450.8	8431.0	12484.9	13062.8	16020.2	15037.4	13563.3
65°	3881.1	3826.5	4031.2	4622.7	4750.1	5355.2	7111.5	7557.4	9459.3	9290.9	8180.7
67.5°	2670.8	2679.9	2857.3	3758.2	4404.3	4349.7	4354.3	4586.3	4936.6	3667.2	3194.0
70°	1692.6	1688.0	1783.6	2420.6	3544.4	3580.8	3398.8	3330.5	3157.6	1911.0	2024.7
72.5°	1087.4	1055.6	1105.6	1337.7	1833.6	2120.3	2184.0	2224.9	1829.1	1501.5	1628.9
75°	614.2	582.4	564.2	623.3	723.4	837.2	919.1	946.4	1060.1	1137.5	1205.7
77.5°	186.5	168.3	204.7	273.0	359.4	482.3	586.9	605.1	714.3	805.3	873.6
80°	81.9	91.0	127.4	182.0	254.8	341.2	414.0	441.3	514.1	582.4	600.6
82.5°	50.0	54.6	86.4	122.8	177.4	241.1	295.7	304.8	377.6	432.2	445.9
85°	18.2	22.7	45.5	72.8	113.7	154.7	154.7	168.3	154.7	154.7	168.3
87.5°	0.0	0.0	4.5	9.1	9.1	13.6	18.2	18.2	22.7	27.3	31.8
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°	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2	11734.2
2.5°	11766.1	11743.3	11706.9	11575.0	11561.3	11520.4	11292.9	11256.5	11292.9	11183.7	11192.8
5°	11743.3	11811.6	11538.6	11406.6	11160.9	10983.5	10778.7	10674.1	10487.5	10369.2	10501.2
7.5°	11843.4	11816.1	11474.9	11188.2	10819.7	10369.2	10009.8	9805.1	9477.5	9386.5	9454.7
10°	11807.0	11661.4	11261.0	10883.4	10187.2	9791.4	9209.0	8644.8	8335.4	8176.2	8153.4
12.5°	11757.0	11716.0	11047.2	10396.5	9664.0	8831.4	8012.4	7480.0	6975.0	6756.6	6788.5
15°	11816.1	11470.3	10646.8	9823.3	8849.6	7757.6	6874.9	6187.9	5837.5	5696.5	5696.5
17.5°	11788.8	11352.0	10455.7	9181.7	7948.7	6656.5	5687.4	5273.3	5127.7	5127.7	5168.7
20°	11802.5	11429.4	10068.9	8540.2	6884.0	5605.5	4900.3	4750.1	4813.8	4836.6	4859.3
22.5°	11879.8	11174.6	9691.3	7834.9	5896.7	4795.6	4449.8	4454.4	4568.1	4691.0	4668.2
25°	11975.4	11074.5	9231.8	7134.3	5141.4	4399.8	4290.6	4276.9	4363.4	4427.1	4436.2
27.5°	11893.5	10901.6	8763.1	6260.7	4522.6	4135.9	4113.1	4122.2	4149.5	4276.9	4236.0
30°	12161.9	10951.6	8176.2	5528.1	4181.4	4049.4	4022.1	4008.5	4049.4	4085.8	4054.0
32.5°	12494.0	10774.2	7739.4	4822.9	4013.0	3985.7	3931.1	3912.9	3935.7	3899.3	3917.5
35°	12639.6	10742.3	7170.7	4317.9	3881.1	3858.3	3826.5	3821.9	3826.5	3794.6	3767.3
37.5°	12721.5	10892.5	6520.0	4085.8	3799.2	3821.9	3749.1	3740.0	3658.1	3676.3	3690.0
40°	12862.6	10660.4	5992.2	3862.9	3749.1	3703.6	3639.9	3626.3	3571.7	3539.8	3571.7
42.5°	12657.8	10592.2	5473.5	3767.3	3676.3	3626.3	3580.8	3503.4	3485.2	3457.9	3439.7
45°	12494.0	10200.9	5009.4	3649.0	3589.9	3562.6	3476.1	3394.2	3326.0	3353.3	3312.3
47.5°	12616.9	10064.4	4549.9	3548.9	3471.6	3439.7	3353.3	3289.6	3221.3	3189.5	3180.4
50°	13108.3	10319.2	4163.2	3476.1	3371.5	3353.3	3239.5	3166.7	3103.0	3080.3	3089.4
52.5°	14282.2	11015.3	3899.3	3326.0	3275.9	3194.0	3130.3	3039.3	2998.4	2925.6	2971.1
55°	15770.0	12148.3	3831.0	3184.9	3157.6	3084.8	2998.4	2930.1	2852.8	2793.6	2780.0
56°	16247.7	12689.7	3776.4	3130.3	3084.8	3043.9	2930.1	2889.2	2766.3	2752.7	2743.6
57.5°	16634.5	13167.4	3785.5	3025.7	2980.2	2943.8	2875.5	2775.4	2693.5	2643.5	2666.2
60°	15760.9	12325.7	3612.6	2866.4	2857.3	2789.1	2693.5	2648.0	2547.9	2488.8	2475.1
62.5°	11716.0	8367.3	2930.1	2661.7	2657.1	2584.3	2475.1	2425.1	2406.9	2325.0	2325.0
65°	6747.5	5246.0	2534.3	2493.3	2457.0	2384.2	2275.0	2234.0	2188.5	2161.2	2138.5
67.5°	2880.1	2720.8	2302.3	2297.7	2256.8	2165.8	2056.6	1992.9	1933.7	1879.1	1906.4
70°	2088.4	2120.3	2079.3	2056.6	2006.5	1892.8	1797.2	1719.9	1628.9	1592.5	1619.8
72.5°	1656.2	1724.4	1783.6	1788.1	1729.0	1597.0	1492.4	1387.7	1287.6	1237.6	1260.3
75°	1255.8	1301.3	1360.4	1374.1	1287.6	1196.6	1096.5	987.3	910.0	850.8	859.9
77.5°	905.4	896.3	950.9	941.8	900.9	837.2	746.2	646.1	559.6	505.0	509.6
80°	618.8	632.4	664.3	659.7	609.7	568.7	500.5	418.6	354.9	309.4	300.3
82.5°	432.2	455.0	482.3	459.5	418.6	377.6	327.6	268.4	218.4	182.0	172.9
85°	154.7	177.4	204.7	218.4	232.0	222.9	186.5	150.1	109.2	91.0	86.4
87.5°	31.8	36.4	40.9	40.9	40.9	36.4	31.8	31.8	27.3	13.6	13.6
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)