

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: P532836

Luminaire Tested: **GALN-SA8B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32509 lumens
Efficiency: N/A
Efficacy: 100.0 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

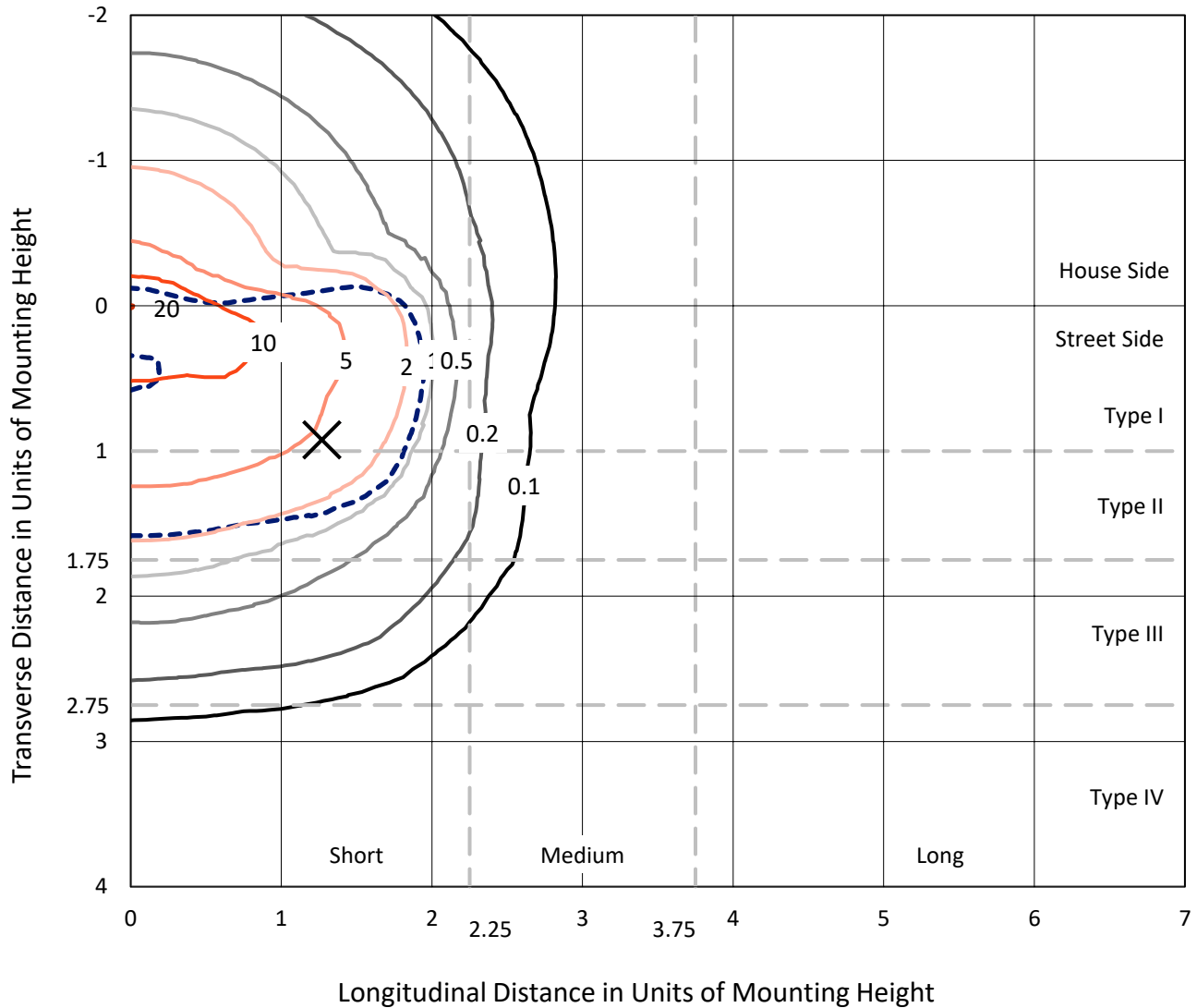
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532836
 CATALOG NUMBER: GALN-SA8B-727-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

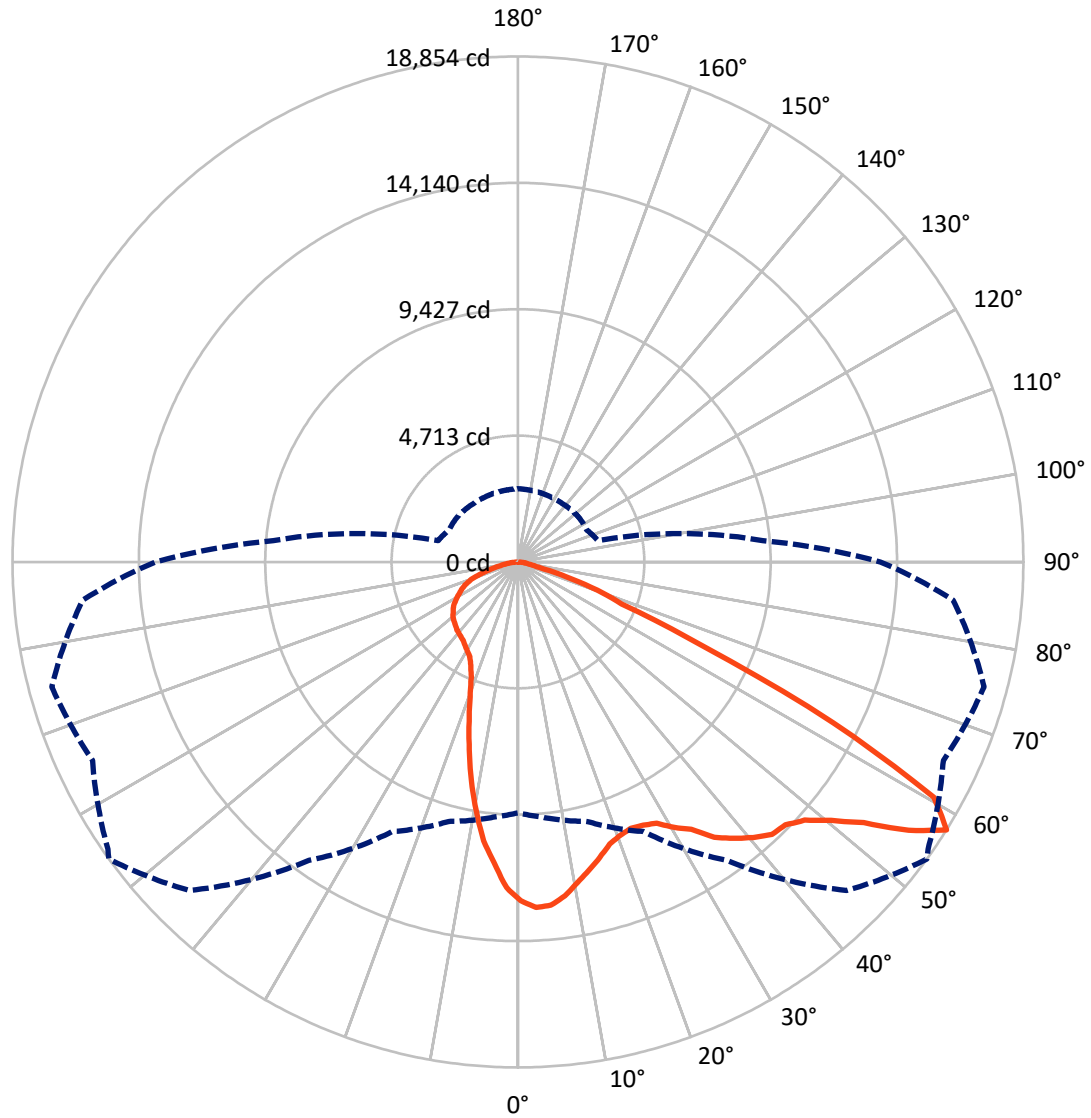
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

REPORT NUMBER: P532836
CATALOG NUMBER: GALN-SA8B-727-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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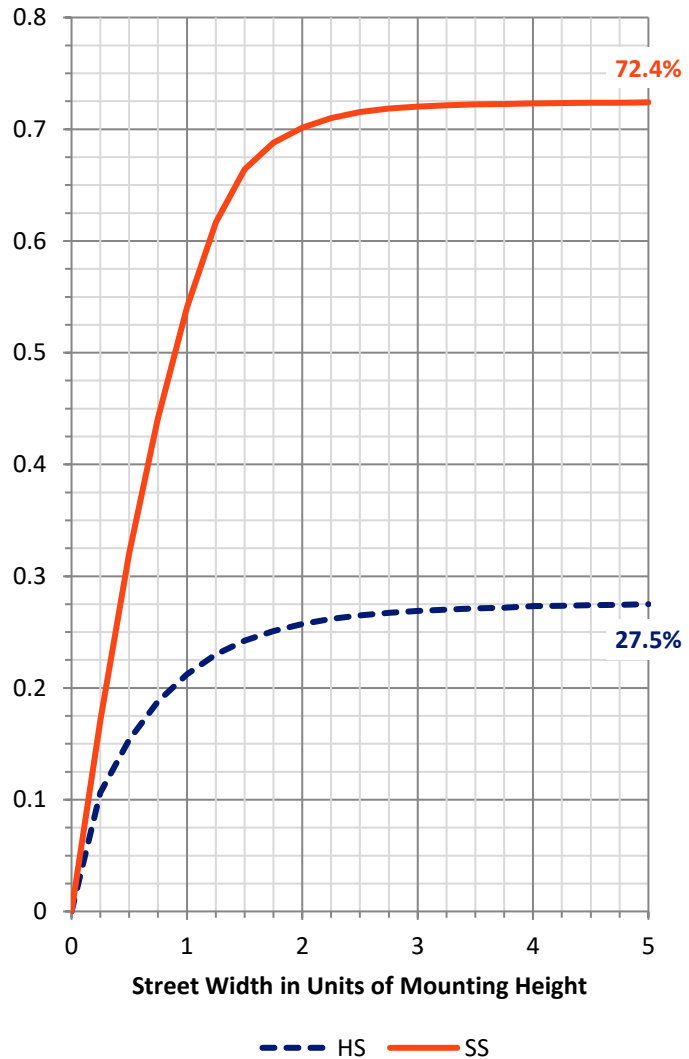
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8993.8	0.0	8993.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23515.2	0.0	23515.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	32509.0	0.0	32509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.7	3.4
10°-20°	2523.1	7.8
20°-30°	3545.0	10.9
30°-40°	4955.9	15.2
40°-50°	6709.4	20.6
50°-60°	8172.3	25.1
60°-70°	4256.5	13.1
70°-80°	1090.7	3.4
80°-90°	166.4	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°	32509.0	100.0
0°-180°	32509.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532836

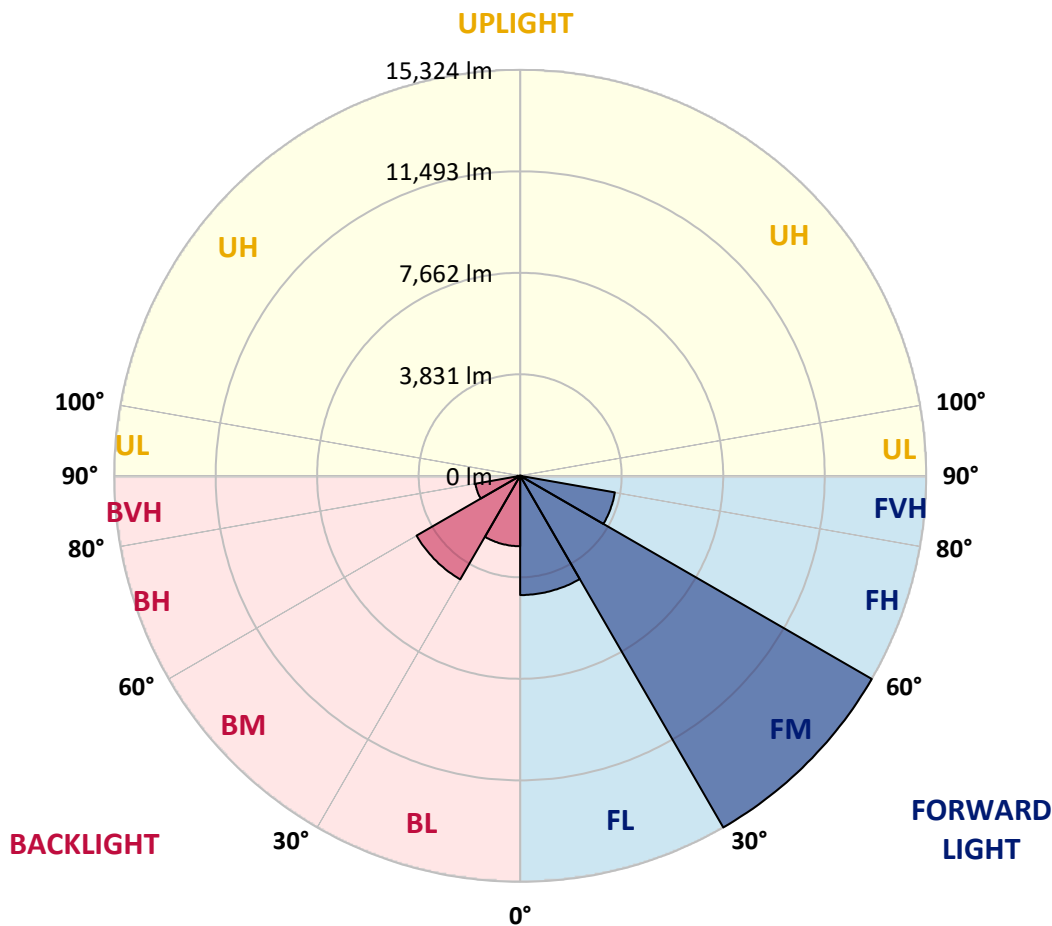
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4499.7	13.8			
FM (30°-60°)	15323.7	47.1			
FH (60°-80°)	3628.9	11.2			G2/5000
FVH (80°-90°)	62.9	0.2			G1/100
BL (0°-30°)	2658.1	8.2	B4/5000		
BM (30°-60°)	4513.9	13.9	B3/5000		
BH (60°-80°)	1718.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	103.5	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





REPORT NUMBER: P532836

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9
2.5°	12995.2	12945.1	12953.4	13020.3	12936.7	12903.3	12903.3	12740.3	12752.9	12640.1	12610.8
5°	12694.4	12577.4	12656.8	12757.1	12773.8	12807.2	12861.5	12819.7	12702.7	12581.6	12385.2
7.5°	11908.8	12013.3	12042.5	12113.6	12264.0	12401.9	12573.2	12456.2	12452.0	12330.8	12213.8
10°	11219.4	11156.7	11315.5	11419.9	11670.6	11900.5	12163.7	12151.2	12213.8	12076.0	11875.4
12.5°	10534.1	10483.9	10559.1	10797.3	11148.3	11482.6	11796.0	11679.0	12013.3	11988.2	11557.8
15°	9807.0	9844.6	9953.3	10174.7	10634.4	11035.5	11432.5	11436.6	11733.3	11833.6	11257.0
17.5°	9297.2	9255.4	9393.3	9723.4	10132.9	10613.5	11064.7	11156.7	11612.1	11670.6	11165.0
20°	8917.0	8975.5	9155.2	9322.3	9794.5	10375.3	10885.1	10918.5	11587.1	11745.8	11018.8
22.5°	8825.1	8791.6	8850.1	9121.7	9510.3	10141.3	10789.0	10914.3	11582.9	11720.8	10743.0
25°	8729.0	8837.6	8833.4	9105.0	9389.2	9953.3	10868.4	11006.2	11804.3	11850.3	10780.6
27.5°	8946.2	8933.7	9050.7	9071.6	9422.6	10003.4	11035.5	11140.0	12172.1	12134.5	10809.9
30°	9163.5	9100.8	9171.9	9418.4	9581.4	10291.7	11495.1	11486.8	12648.4	12623.3	10901.8
32.5°	9430.9	9401.7	9447.7	9664.9	9940.7	10676.1	11883.7	12130.3	13133.1	13291.9	11219.4
35°	9481.1	9602.3	9710.9	10003.4	10396.2	11298.7	12615.0	12819.7	13693.0	14190.3	11825.2
37.5°	9798.7	9844.6	10099.5	10617.6	10977.0	12130.3	13078.8	13208.3	14202.8	14766.9	12464.6
40°	10137.1	10191.4	10575.9	11119.1	11612.1	12673.5	13513.4	13555.2	14365.8	15209.9	12882.4
42.5°	10596.8	10646.9	11027.1	11708.2	12368.4	13137.3	13897.8	13943.8	14353.3	15719.6	13546.8
45°	11073.1	11194.3	11641.4	12414.4	13007.8	13680.5	13985.5	14173.6	14470.3	16175.1	14085.8
47.5°	11741.7	11854.5	12222.2	12978.5	13672.2	14156.9	14390.9	14574.7	14750.2	16572.1	14432.6
50°	12452.0	12472.9	12920.0	13605.3	14115.1	14695.9	15147.2	15209.9	15117.9	17031.7	15021.8
52.5°	12974.3	13041.2	13388.0	14056.6	14817.1	15531.6	16150.0	16216.9	16037.2	17203.0	15222.4
55°	12109.4	12071.8	12635.9	13525.9	15289.2	16776.8	17675.2	17725.3	16705.8	17733.7	15878.4
57.5°	9359.9	9539.6	10020.1	11094.0	13584.4	17328.4	18853.5	18673.9	17508.0	18001.1	16296.3
60°	6802.6	6760.9	7082.6	7801.3	10237.4	14934.1	17825.6	18009.5	16852.0	16225.2	13438.2
62.5°	5540.7	5482.2	5507.3	5532.4	6606.3	9911.5	13195.8	13191.6	12978.5	11662.3	9063.2
65°	4429.2	4567.1	4579.7	4767.7	4905.6	5921.0	7646.7	8056.2	7015.8	5753.8	4174.4
67.5°	3338.6	3288.5	3455.6	4124.2	4383.3	4274.6	4174.4	4220.3	3000.2	2164.5	2039.1
70°	1968.1	1947.2	2147.8	2874.8	3610.3	3397.1	3146.4	3150.6	2060.0	1512.6	1683.9
72.5°	1078.1	1073.9	1115.7	1458.3	2051.7	2131.1	1888.7	1947.2	1228.5	1224.3	1316.2
75°	601.7	589.2	576.6	643.5	739.6	781.4	798.1	806.5	844.1	944.3	982.0
77.5°	221.5	213.1	213.1	246.5	313.4	392.8	497.2	505.6	597.5	685.3	722.9
80°	75.2	83.6	112.8	154.6	208.9	280.0	338.5	346.8	422.0	480.5	493.1
82.5°	46.0	50.1	75.2	108.6	150.4	196.4	250.7	254.9	313.4	351.0	367.7
85°	20.9	25.1	41.8	66.9	96.1	129.5	133.7	133.7	129.5	133.7	125.4
87.5°	0.0	0.0	8.4	8.4	8.4	12.5	16.7	12.5	20.9	25.1	25.1
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: P532836

CATALOG NUMBER: GALN-SA8B-727-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9	12635.9
2.5°	12523.1	12477.1	12335.0	12209.7	12172.1	12004.9	11758.4	11787.6	11608.0	11691.5	11603.8
5°	12351.7	12197.1	11833.6	11679.0	11273.7	11089.8	10964.5	10651.1	10504.8	10475.6	10350.2
7.5°	11913.0	11816.9	11361.4	10943.6	10513.2	10145.5	9673.3	9351.6	9121.7	9059.1	8875.2
10°	11566.2	11353.1	10722.1	10087.0	9472.7	8833.4	8219.2	7738.6	7504.6	7233.0	7141.1
12.5°	11223.5	10901.8	10049.4	9234.6	8440.6	7634.2	6890.4	6305.4	5795.6	5674.4	5632.7
15°	11010.4	10450.5	9447.7	8465.7	7337.5	6284.5	5540.7	5156.3	4842.9	4713.4	4805.3
17.5°	10730.5	10078.6	8871.0	7563.1	6322.1	5352.7	4730.1	4491.9	4379.1	4391.6	4354.0
20°	10379.5	9727.6	8114.7	6744.1	5415.4	4642.3	4287.2	4199.4	4216.1	4245.4	4232.9
22.5°	10128.8	9301.4	7567.3	5908.4	4680.0	4249.6	4103.3	4040.6	4095.0	4120.0	4099.1
25°	9936.5	8937.9	6902.9	5168.8	4253.7	4028.1	3961.2	3957.1	4040.6	4074.1	4053.2
27.5°	9761.0	8599.4	6242.7	4604.7	3969.6	3856.8	3835.9	3886.0	3940.4	3973.8	4003.0
30°	9656.6	8340.3	5624.3	4132.6	3827.5	3773.2	3735.6	3781.6	3810.8	3844.2	3827.5
32.5°	9756.9	8156.5	5026.8	3865.1	3710.5	3656.2	3706.4	3677.1	3727.2	3756.5	3710.5
35°	10070.3	7993.5	4600.6	3723.1	3576.8	3597.7	3606.1	3593.5	3614.4	3589.4	3643.7
37.5°	10379.5	7935.0	4207.8	3601.9	3514.1	3514.1	3505.8	3480.7	3522.5	3514.1	3539.2
40°	10772.3	7972.6	3873.5	3472.4	3455.6	3447.3	3413.9	3409.7	3393.0	3397.1	3405.5
42.5°	11114.9	8056.2	3681.3	3388.8	3401.3	3418.0	3355.4	3305.2	3326.1	3284.3	3284.3
45°	11478.4	8131.4	3510.0	3330.3	3317.8	3313.6	3263.4	3234.2	3217.5	3221.6	3259.3
47.5°	12050.9	8240.1	3380.4	3250.9	3259.3	3196.6	3184.0	3146.4	3163.1	3188.2	3192.4
50°	12456.2	8469.9	3280.1	3159.0	3188.2	3146.4	3071.2	3054.5	3054.5	3096.3	3087.9
52.5°	12740.3	8791.6	3184.0	3058.7	3071.2	3037.8	3012.7	2975.1	2950.0	3008.5	3037.8
55°	13609.5	9326.5	3159.0	2975.1	2970.9	2937.5	2891.5	2853.9	2841.4	2849.8	2908.3
57.5°	13525.9	9159.3	3079.6	2828.9	2820.5	2774.5	2728.6	2716.0	2711.9	2720.2	2736.9
60°	10981.2	6765.0	2749.5	2661.7	2649.2	2640.8	2594.9	2544.7	2519.7	2544.7	2523.8
62.5°	7266.5	4529.5	2423.5	2461.2	2469.5	2448.6	2373.4	2323.3	2331.6	2360.9	2314.9
65°	3568.5	2661.7	2197.9	2298.2	2306.5	2248.0	2177.0	2118.5	2089.3	2114.3	2093.4
67.5°	2039.1	2034.9	2014.1	2118.5	2114.3	2055.8	1943.0	1892.9	1842.7	1851.1	1838.6
70°	1729.9	1763.3	1805.1	1867.8	1863.6	1796.8	1663.1	1625.4	1554.4	1546.1	1525.2
72.5°	1362.2	1420.7	1512.6	1558.6	1521.0	1437.4	1349.7	1287.0	1224.3	1186.7	1199.2
75°	1011.2	1094.8	1144.9	1174.2	1115.7	1069.7	998.7	923.5	848.2	814.8	802.3
77.5°	735.4	760.5	806.5	827.3	789.7	743.8	702.0	626.8	555.7	509.8	497.2
80°	514.0	530.7	564.1	564.1	564.1	543.2	488.9	413.7	367.7	325.9	317.6
82.5°	359.4	376.1	409.5	392.8	388.6	363.5	330.1	271.6	221.5	192.2	183.9
85°	125.4	137.9	167.1	200.6	213.1	208.9	188.0	150.4	117.0	96.1	87.7
87.5°	29.2	29.2	33.4	29.2	29.2	33.4	29.2	29.2	29.2	20.9	16.7
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)