

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: P531952

Luminaire Tested: **GALN-SA7B-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531952
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-SA7B-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 31234 lumens
Efficiency: N/A
Efficacy: 109.2 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): 286
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



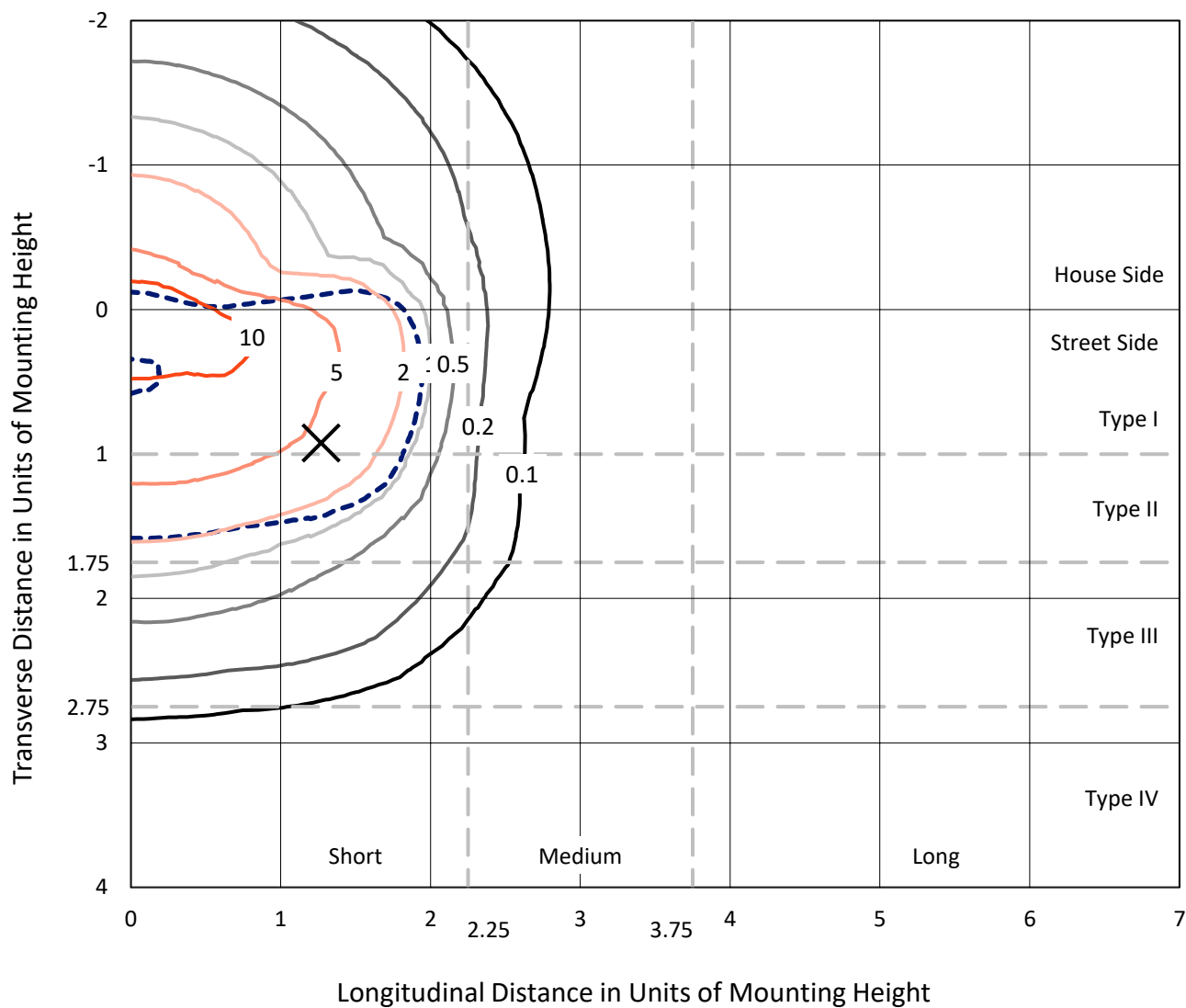
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

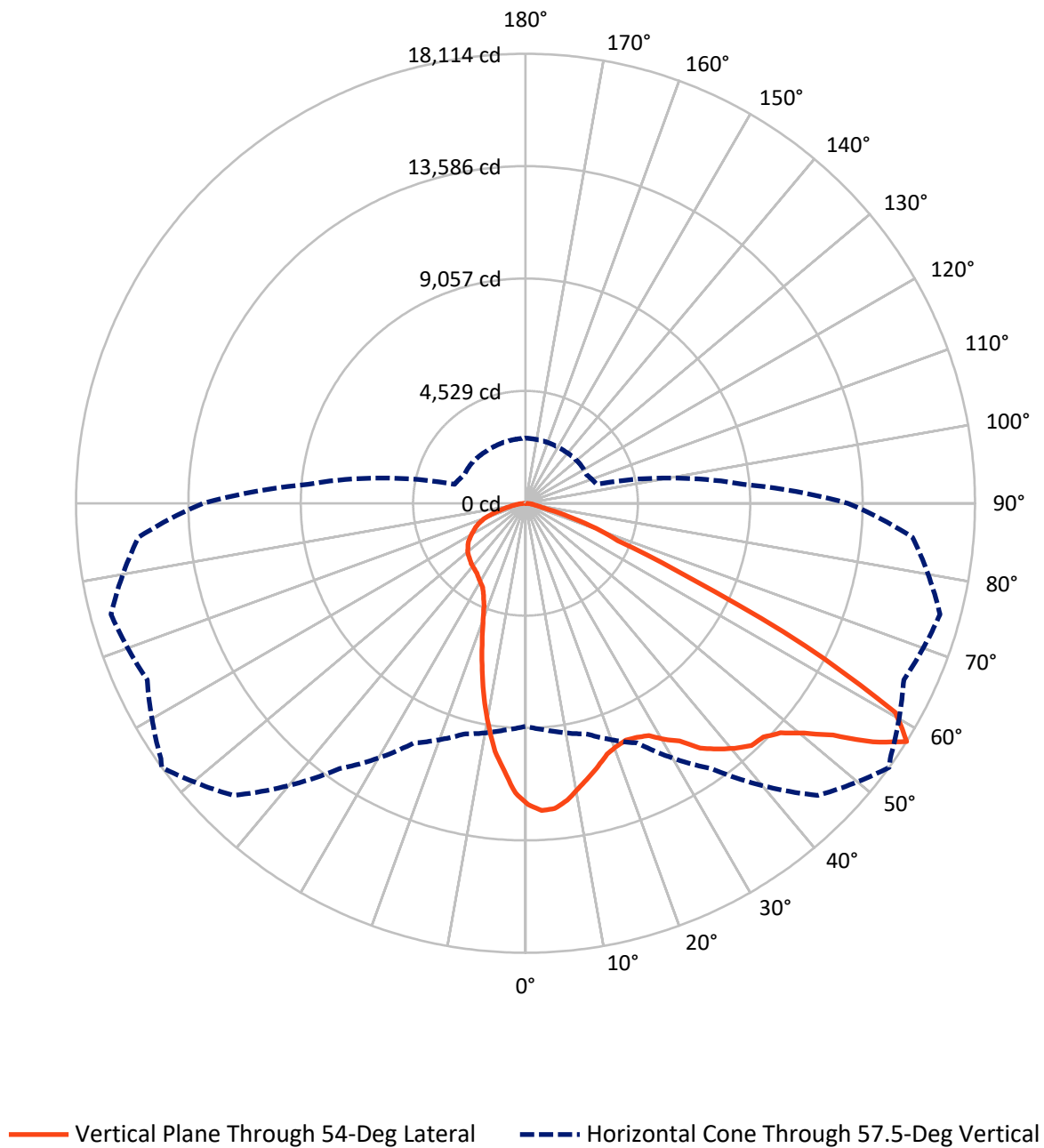


Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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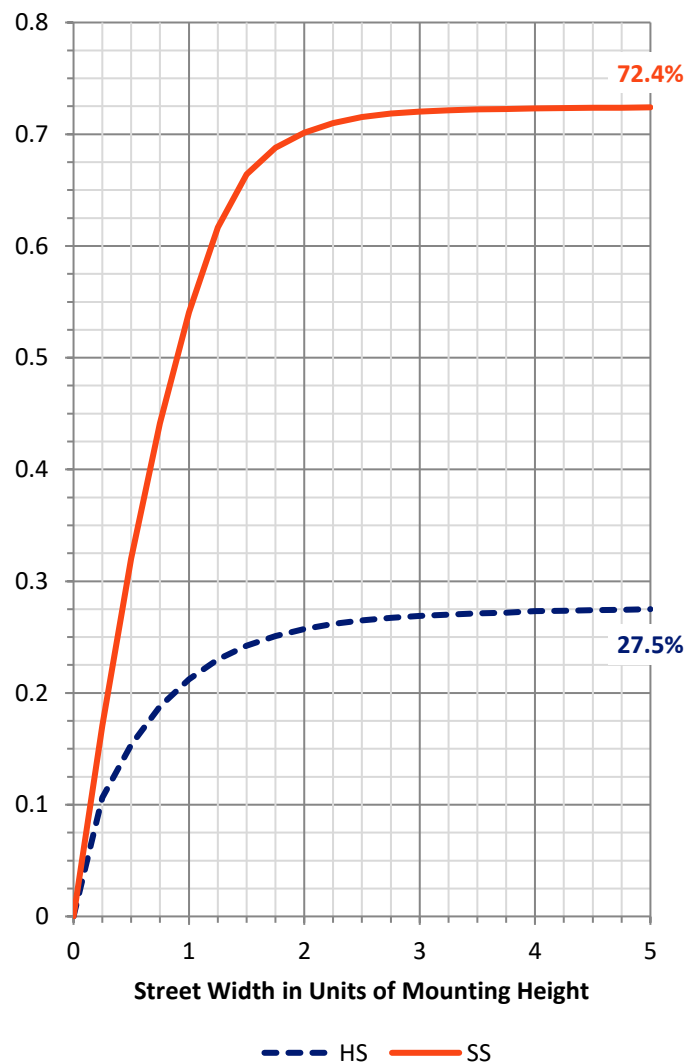
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8641.1	0.0	8641.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	22592.9	0.0	22592.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	31234.0	0.0	31234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.0	3.4
10°-20°	2424.1	7.8
20°-30°	3406.0	10.9
30°-40°	4761.6	15.2
40°-50°	6446.2	20.6
50°-60°	7851.8	25.1
60°-70°	4089.6	13.1
70°-80°	1047.9	3.4
80°-90°	159.8	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°	31234.0	100.0
0°-180°	31234.0	100.0

Coefficient of Utilization



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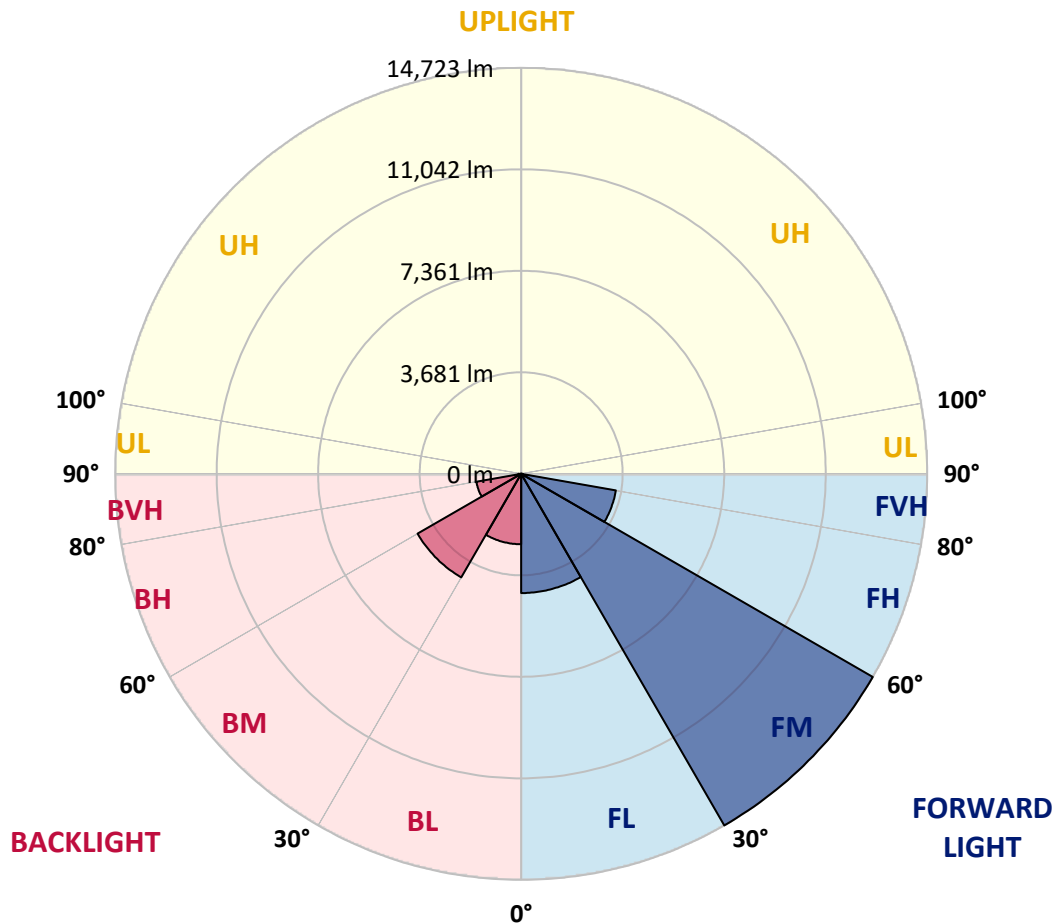
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4323.2	13.8			
FM	(30°-60°)	14722.7	47.1			
FH	(60°-80°)	3486.6	11.2			G2/5000
FVH	(80°-90°)	60.4	0.2			G1/100
BL	(0°-30°)	2553.9	8.2	B4/5000		
BM	(30°-60°)	4336.9	13.9	B3/5000		
BH	(60°-80°)	1650.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	99.4	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3
2.5°	12485.6	12437.4	12445.4	12509.6	12429.4	12397.2	12397.2	12240.7	12252.7	12144.3	12116.2
5°	12196.5	12084.1	12160.4	12256.7	12272.8	12304.9	12357.1	12316.9	12204.5	12088.1	11899.4
7.5°	11441.7	11542.1	11570.2	11638.5	11783.0	11915.5	12080.1	11967.7	11963.7	11847.2	11734.8
10°	10779.3	10719.1	10871.7	10972.0	11212.9	11433.7	11686.6	11674.6	11734.8	11602.3	11409.6
12.5°	10120.9	10072.8	10145.0	10373.9	10711.1	11032.3	11333.4	11220.9	11542.1	11518.0	11104.5
15°	9422.4	9458.5	9562.9	9775.7	10217.3	10602.7	10984.1	10988.1	11273.1	11369.5	10815.5
17.5°	8932.6	8892.4	9024.9	9342.1	9735.5	10197.2	10630.8	10719.1	11156.7	11212.9	10727.1
20°	8567.3	8623.5	8796.1	8956.7	9410.3	9968.4	10458.2	10490.3	11132.6	11285.2	10586.6
22.5°	8478.9	8446.8	8503.0	8764.0	9137.3	9743.6	10365.8	10486.3	11128.6	11261.1	10321.7
25°	8386.6	8491.0	8487.0	8747.9	9020.9	9562.9	10442.1	10574.6	11341.4	11385.5	10357.8
27.5°	8595.4	8583.3	8695.7	8715.8	9053.0	9611.1	10602.7	10703.1	11694.7	11658.5	10385.9
30°	8804.1	8743.9	8812.2	9049.0	9205.6	9888.1	11044.3	11036.3	12152.3	12128.3	10474.2
32.5°	9061.1	9033.0	9077.1	9285.9	9550.8	10257.4	11417.7	11654.5	12618.0	12770.6	10779.3
35°	9109.2	9225.7	9330.0	9611.1	9988.4	10855.6	12120.2	12316.9	13156.0	13633.7	11361.5
37.5°	9414.4	9458.5	9703.4	10201.2	10546.5	11654.5	12565.9	12690.3	13645.8	14187.8	11975.7
40°	9739.5	9791.7	10161.1	10683.0	11156.7	12176.4	12983.4	13023.5	13802.4	14613.3	12377.2
42.5°	10181.1	10229.3	10594.7	11249.0	11883.4	12622.1	13352.7	13396.9	13790.3	15103.1	13015.5
45°	10638.8	10755.2	11184.8	11927.5	12497.6	13144.0	13437.0	13617.7	13902.7	15540.7	13533.4
47.5°	11281.2	11389.6	11742.8	12469.5	13135.9	13601.6	13826.5	14003.1	14171.7	15922.1	13866.6
50°	11963.7	11983.7	12413.3	13071.7	13561.5	14119.5	14553.1	14613.3	14525.0	16363.7	14432.7
52.5°	12465.5	12529.7	12862.9	13505.3	14235.9	14922.4	15516.6	15580.9	15408.2	16528.3	14625.4
55°	11634.5	11598.3	12140.3	12995.4	14689.6	16118.8	16982.0	17030.1	16050.6	17038.2	15255.7
57.5°	8992.8	9165.4	9627.1	10658.9	13051.6	16648.7	18114.1	17941.5	16821.4	17295.1	15657.1
60°	6535.8	6495.7	6804.8	7495.3	9835.9	14348.4	17126.5	17303.1	16191.1	15588.9	12911.1
62.5°	5323.4	5267.2	5291.3	5315.4	6347.2	9522.7	12678.3	12674.2	12469.5	11204.9	8707.8
65°	4255.5	4388.0	4400.1	4580.7	4713.2	5688.8	7346.8	7740.2	6740.6	5528.2	4010.6
67.5°	3207.7	3159.5	3320.1	3962.5	4211.4	4107.0	4010.6	4054.8	2882.5	2079.6	1959.1
70°	1890.9	1870.8	2063.5	2762.1	3468.7	3263.9	3023.0	3027.0	1979.2	1453.3	1617.9
72.5°	1035.8	1031.8	1071.9	1401.1	1971.2	2047.5	1814.6	1870.8	1180.3	1176.3	1264.6
75°	578.1	566.1	554.0	618.3	710.6	750.7	766.8	774.8	811.0	907.3	943.4
77.5°	212.8	204.7	204.7	236.9	301.1	377.4	477.7	485.8	574.1	658.4	694.5
80°	72.3	80.3	108.4	148.5	200.7	269.0	325.2	333.2	405.5	461.7	473.7
82.5°	44.2	48.2	72.3	104.4	144.5	188.7	240.9	244.9	301.1	337.2	353.3
85°	20.1	24.1	40.1	64.2	92.3	124.5	128.5	128.5	124.5	128.5	120.4
87.5°	0.0	0.0	8.0	8.0	8.0	12.0	16.1	12.0	20.1	24.1	24.1
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°	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3	12140.3
2.5°	12031.9	11987.7	11851.2	11730.8	11694.7	11534.1	11297.2	11325.3	11152.7	11233.0	11148.7
5°	11867.3	11718.8	11369.5	11220.9	10831.5	10654.9	10534.4	10233.3	10092.8	10064.7	9944.3
7.5°	11445.8	11353.4	10915.8	10514.4	10100.9	9747.6	9293.9	8984.8	8764.0	8703.8	8527.1
10°	11112.5	10907.8	10301.6	9691.4	9101.2	8487.0	7896.8	7435.1	7210.3	6949.4	6861.0
12.5°	10783.3	10474.2	9655.2	8872.4	8109.6	7334.8	6620.2	6058.1	5568.3	5451.9	5411.7
15°	10578.6	10040.6	9077.1	8133.7	7049.7	6038.0	5323.4	4954.1	4653.0	4528.5	4616.8
17.5°	10309.6	9683.3	8523.1	7266.5	6074.2	5142.8	4544.6	4315.7	4207.4	4219.4	4183.3
20°	9972.4	9346.1	7796.4	6479.6	5203.0	4460.3	4119.0	4034.7	4050.8	4078.9	4066.8
22.5°	9731.5	8936.6	7270.5	5676.7	4496.4	4082.9	3942.4	3882.2	3934.4	3958.4	3938.4
25°	9546.8	8587.3	6632.2	4966.1	4086.9	3870.1	3805.9	3801.9	3882.2	3914.3	3894.2
27.5°	9378.2	8262.1	5997.9	4424.1	3813.9	3705.5	3685.4	3733.6	3785.8	3817.9	3846.0
30°	9277.9	8013.2	5403.7	3970.5	3677.4	3625.2	3589.1	3633.3	3661.4	3693.5	3677.4
32.5°	9374.2	7836.6	4829.6	3713.6	3565.0	3512.8	3561.0	3532.9	3581.1	3609.2	3565.0
35°	9675.3	7680.0	4420.1	3577.1	3436.5	3456.6	3464.6	3452.6	3472.7	3448.6	3500.8
37.5°	9972.4	7623.8	4042.8	3460.6	3376.3	3376.3	3368.3	3344.2	3384.3	3376.3	3400.4
40°	10349.8	7659.9	3721.6	3336.2	3320.1	3312.1	3280.0	3276.0	3259.9	3263.9	3271.9
42.5°	10679.0	7740.2	3536.9	3255.9	3267.9	3284.0	3223.8	3175.6	3195.7	3155.5	3155.5
45°	11028.2	7812.5	3372.3	3199.7	3187.6	3183.6	3135.4	3107.3	3091.3	3095.3	3131.4
47.5°	11578.2	7916.9	3247.9	3123.4	3131.4	3071.2	3059.2	3023.0	3039.1	3063.2	3067.2
50°	11967.7	8137.7	3151.5	3035.1	3063.2	3023.0	2950.8	2934.7	2934.7	2974.9	2966.8
52.5°	12240.7	8446.8	3059.2	2938.7	2950.8	2918.6	2894.6	2858.4	2834.3	2890.5	2918.6
55°	13075.7	8960.7	3035.1	2858.4	2854.4	2822.3	2778.1	2742.0	2730.0	2738.0	2794.2
57.5°	12995.4	8800.1	2958.8	2717.9	2709.9	2665.7	2621.6	2609.5	2605.5	2613.5	2629.6
60°	10550.5	6499.7	2641.6	2557.3	2545.3	2537.3	2493.1	2444.9	2420.8	2444.9	2424.8
62.5°	6981.5	4351.9	2328.5	2364.6	2372.7	2352.6	2280.3	2232.1	2240.2	2268.3	2224.1
65°	3428.5	2557.3	2111.7	2208.1	2216.1	2159.9	2091.6	2035.4	2007.3	2031.4	2011.3
67.5°	1959.1	1955.1	1935.1	2035.4	2031.4	1975.2	1866.8	1818.6	1770.5	1778.5	1766.4
70°	1662.1	1694.2	1734.3	1794.5	1790.5	1726.3	1597.8	1561.7	1493.4	1485.4	1465.3
72.5°	1308.8	1365.0	1453.3	1497.5	1461.3	1381.0	1296.7	1236.5	1176.3	1140.2	1152.2
75°	971.5	1051.8	1100.0	1128.1	1071.9	1027.8	959.5	887.2	815.0	782.9	770.8
77.5°	706.6	730.7	774.8	794.9	758.8	714.6	674.5	602.2	533.9	489.8	477.7
80°	493.8	509.9	542.0	542.0	542.0	521.9	469.7	397.5	353.3	313.1	305.1
82.5°	345.3	361.3	393.4	377.4	373.4	349.3	317.2	261.0	212.8	184.7	176.6
85°	120.4	132.5	160.6	192.7	204.7	200.7	180.7	144.5	112.4	92.3	84.3
87.5°	28.1	28.1	32.1	28.1	28.1	32.1	28.1	28.1	28.1	20.1	16.1
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)