

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: P532978

Luminaire Tested: **GALN-SA8B-760-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532978
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-SA8B-760-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 40110 lumens
Efficiency: N/A
Efficacy: 123.4 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

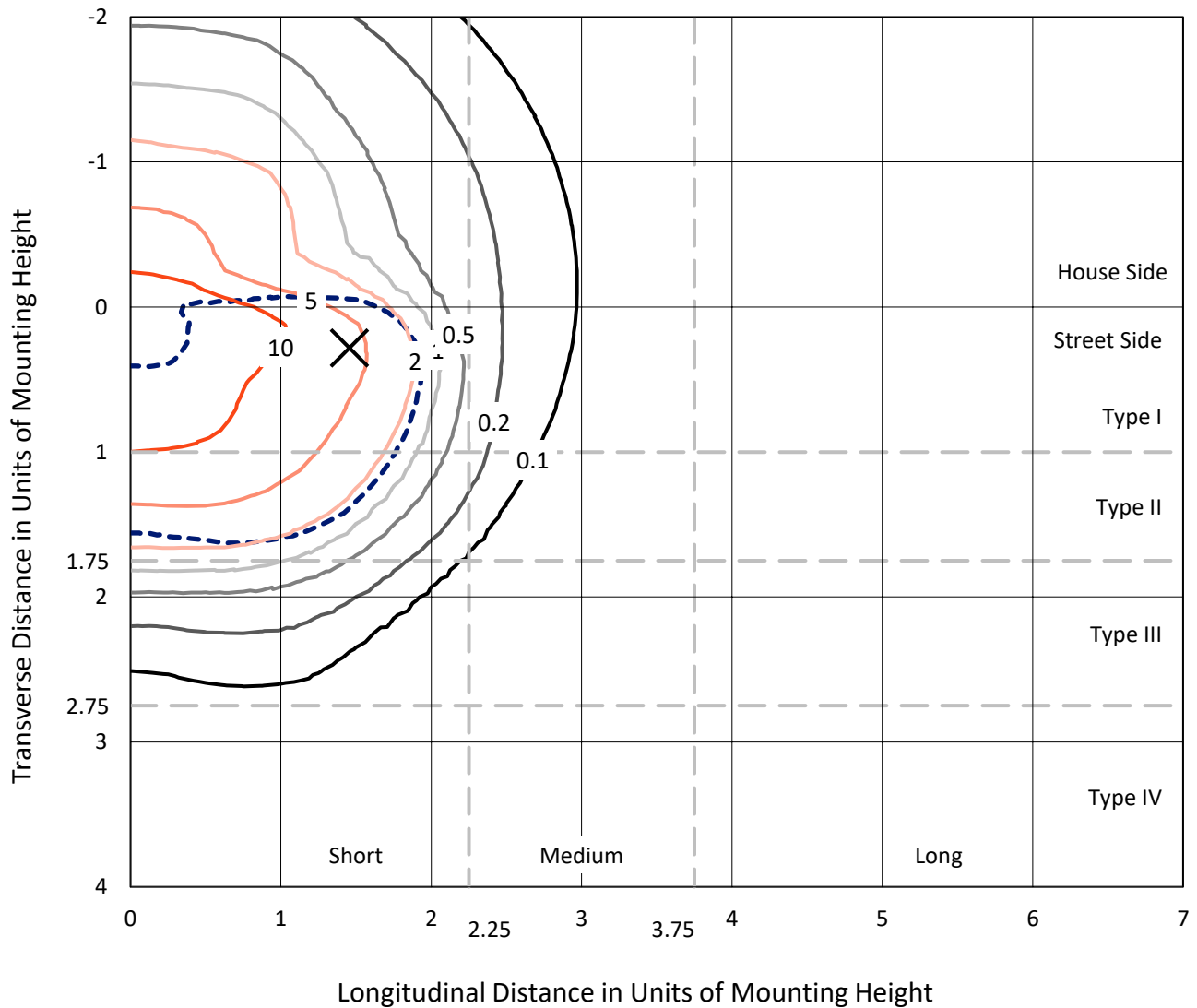
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

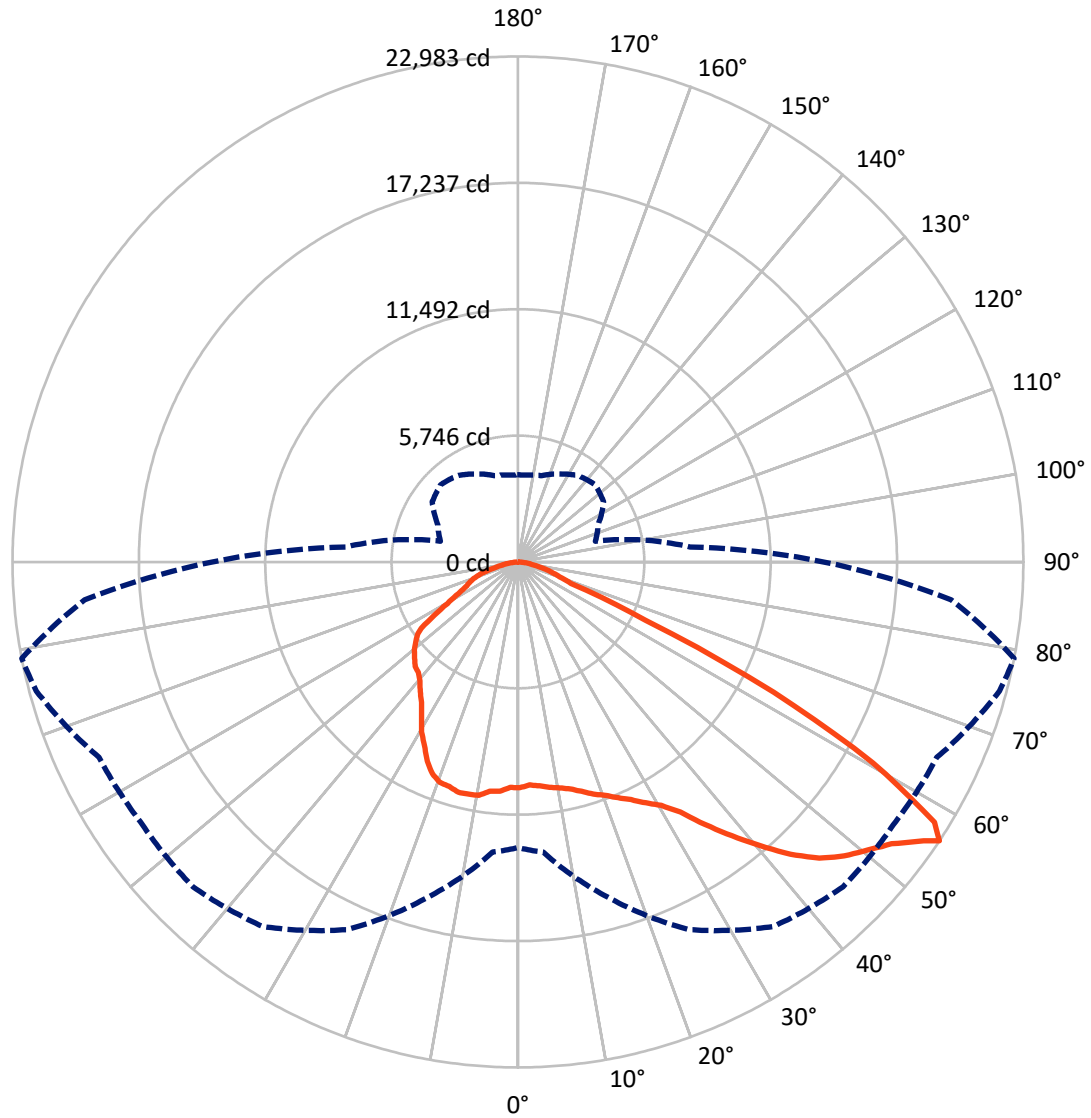
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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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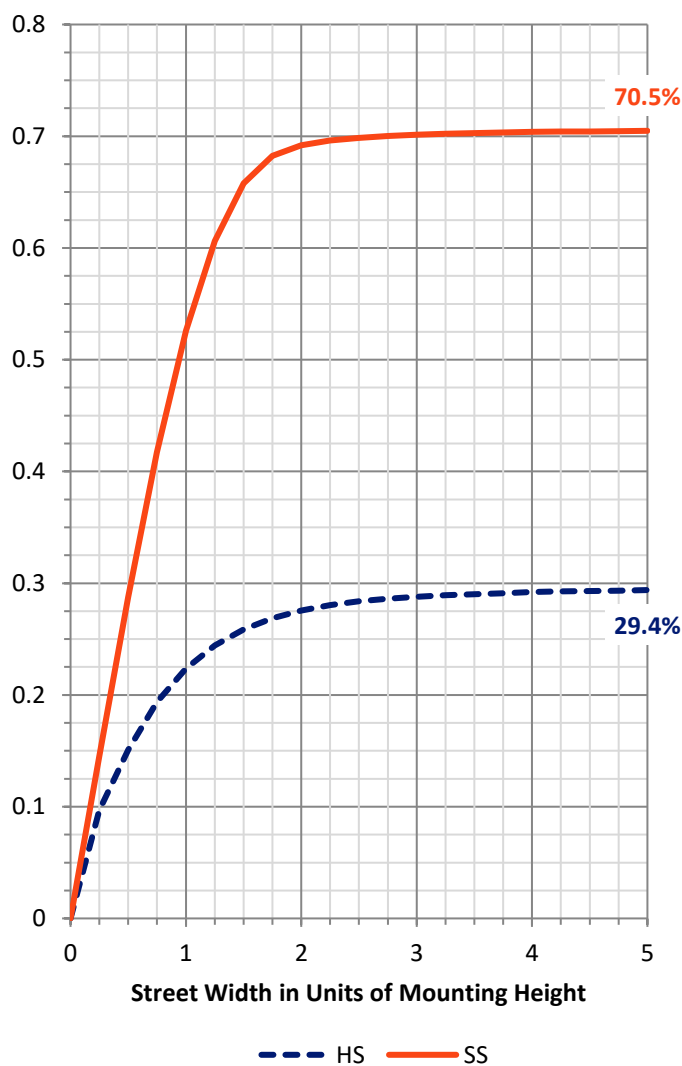
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11845.4	0.0	11845.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	28264.7	0.0	28264.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	40110.0	0.0	40110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.1	2.3
10°-20°	2553.5	6.4
20°-30°	4368.6	10.9
30°-40°	6695.4	16.7
40°-50°	9048.8	22.6
50°-60°	10392.9	25.9
60°-70°	4737.4	11.8
70°-80°	1168.0	2.9
80°-90°	212.3	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°	40110.0	100.0
0°-180°	40110.0	100.0

Coefficient of Utilization



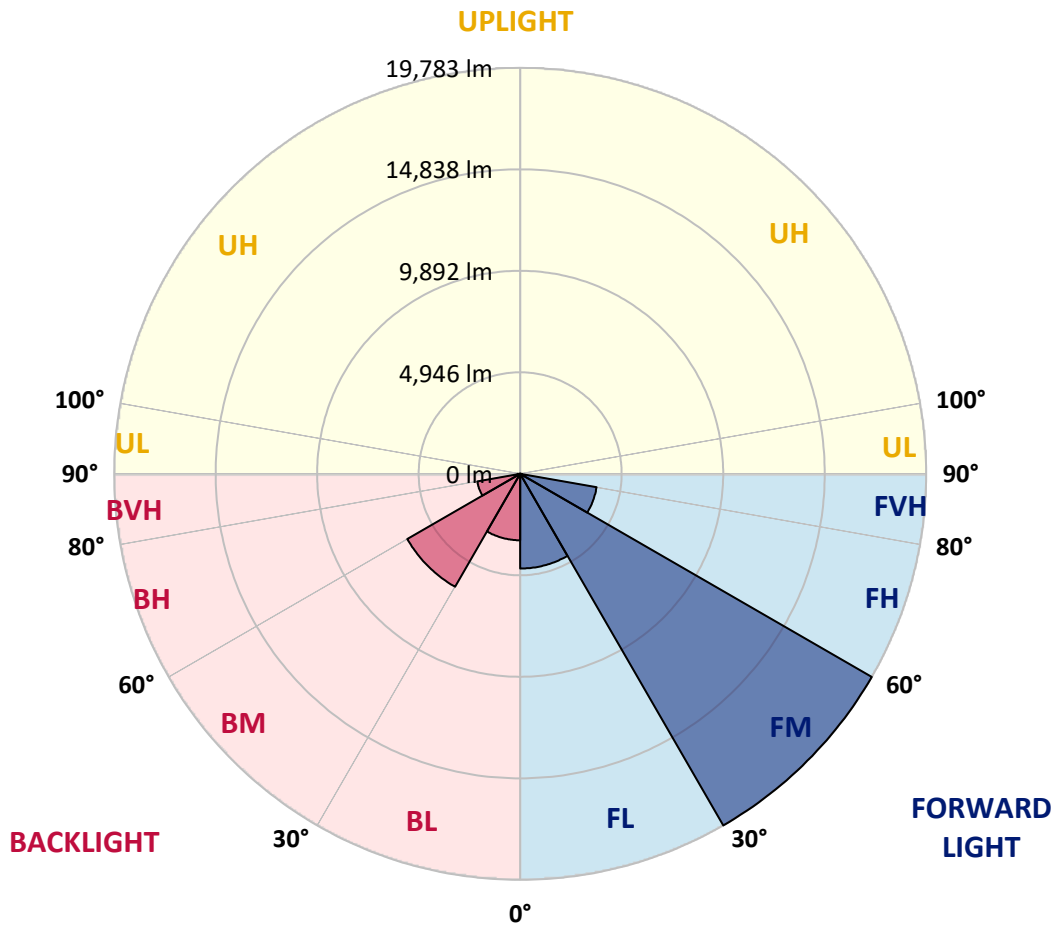
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4615.0	11.5			
FM (30°-60°)	19783.4	49.3			
FH (60°-80°)	3781.5	9.4			G2/5000
FVH (80°-90°)	84.8	0.2			G1/100
BL (0°-30°)	3240.2	8.1	B4/5000		
BM (30°-60°)	6353.7	15.8	B4/8500		
BH (60°-80°)	2123.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	127.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6
2.5°	9762.9	9737.9	9797.9	9842.9	9897.8	9967.8	10002.7	10022.7	10197.6	10152.6	10287.5
5°	9553.1	9488.1	9533.1	9568.1	9663.0	9747.9	9842.9	9992.8	10152.6	10222.6	10387.5
7.5°	9368.2	9333.2	9323.2	9348.2	9478.1	9588.0	9752.9	9972.8	10232.6	10347.5	10442.4
10°	9063.4	9013.5	9088.4	9253.3	9288.3	9518.1	9708.0	10022.7	10247.6	10447.4	10727.2
12.5°	8928.5	8878.6	8893.6	8988.5	9233.3	9453.1	9678.0	10032.7	10507.4	10587.3	10962.1
15°	9143.4	9093.4	9108.4	9083.4	9318.2	9433.2	9787.9	10232.6	10687.3	10822.2	11221.9
17.5°	9633.0	9638.0	9573.1	9518.1	9463.1	9708.0	9952.8	10352.5	10757.2	11097.0	11396.7
20°	10567.3	10402.5	10272.6	9962.8	9877.8	9982.8	10292.5	10677.3	11042.0	11321.8	11661.5
22.5°	11286.8	11301.8	11116.9	10607.3	10422.4	10467.4	10732.2	11047.0	11446.7	11646.6	12036.3
25°	12331.1	12226.1	12026.3	11621.6	11206.9	11241.9	11436.7	11721.5	11831.4	11971.3	12396.0
27.5°	13285.4	13315.3	12920.6	12540.9	12026.3	11926.4	12276.1	12326.1	12141.2	12406.0	12550.9
30°	14254.7	14229.7	13969.9	13525.2	13020.6	13040.5	13195.4	12950.6	12695.8	12840.7	12940.6
32.5°	15258.9	14974.1	14964.2	14564.4	14179.7	13994.9	13805.0	13924.9	13530.2	13560.2	13465.2
35°	16063.4	16103.3	15873.5	15588.7	15398.8	15074.1	14554.4	14769.3	14694.3	14659.4	14249.7
37.5°	16647.9	16493.0	16608.0	16513.0	16333.2	15928.5	15388.8	15593.7	15628.7	15798.5	15323.9
40°	17127.6	17062.6	17367.4	17417.4	17292.5	16418.1	15448.8	16058.4	16583.0	16952.7	16388.1
42.5°	17357.4	17497.3	17817.1	18201.8	17922.0	16987.7	15758.6	16413.1	17582.3	18166.8	17397.4
45°	17667.2	17487.3	17962.0	18666.5	18671.5	17467.3	16058.4	16892.8	18361.7	19211.1	18086.9
47.5°	17352.4	17442.4	17932.0	18826.4	19056.2	17972.0	16867.8	17572.3	19221.1	19975.5	18726.4
50°	16647.9	16827.8	17722.2	18651.5	19346.0	18506.6	17797.1	18306.7	20015.5	20590.1	18831.3
52.5°	15913.5	16013.4	17412.4	18786.4	19475.9	19196.1	19041.2	19321.0	20984.8	21284.6	18961.3
55°	13914.9	14389.6	16388.1	18726.4	20110.4	20440.2	20320.3	20730.0	22084.0	22383.8	19670.7
56°	12990.6	13240.4	15773.6	18446.6	20235.3	20894.9	20834.9	21019.8	22668.6	22983.3	19780.7
57.5°	11281.8	11301.8	13450.2	17207.5	19765.7	21029.8	20969.8	21114.7	22553.7	22338.8	18816.4
60°	7059.9	7369.7	9153.4	13235.4	16807.8	19510.9	19850.6	18686.5	19016.2	18561.5	14639.4
62.5°	3657.3	3612.4	4796.5	7739.4	11156.9	13969.9	14284.6	14229.7	13720.1	13055.5	9563.1
65°	1823.7	1833.7	2508.2	3832.2	5715.9	7314.7	8194.1	8289.0	6935.0	6380.4	4536.7
67.5°	1324.0	1374.0	1803.7	2343.3	2693.0	3012.8	3692.3	3622.4	2743.0	2608.1	2418.2
70°	1029.3	1074.2	1463.9	1788.7	1623.8	1623.8	1768.7	1828.7	1953.6	2008.5	2073.5
72.5°	749.5	784.4	1119.2	1234.1	1064.2	1144.2	1324.0	1463.9	1593.8	1613.8	1688.8
75°	514.6	544.6	734.5	679.5	639.5	789.4	969.3	1099.2	1194.1	1244.1	1289.1
77.5°	334.8	344.8	419.7	354.7	409.7	509.6	629.5	739.5	834.4	874.4	884.4
80°	149.9	164.9	179.9	224.8	284.8	364.7	449.7	539.6	599.6	614.6	644.5
82.5°	84.9	84.9	109.9	159.9	209.8	264.8	324.8	389.7	459.7	474.7	469.7
85°	45.0	45.0	65.0	94.9	129.9	154.9	149.9	154.9	164.9	189.9	184.9
87.5°	15.0	15.0	20.0	20.0	25.0	30.0	25.0	35.0	45.0	45.0	45.0
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°	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6	10262.6
2.5°	10247.6	10292.5	10232.6	10362.5	10362.5	10337.5	10212.6	10252.6	10282.5	10282.5	10307.5
5°	10442.4	10427.4	10467.4	10312.5	10217.6	10182.6	9977.8	9877.8	9792.9	9787.9	9713.0
7.5°	10552.4	10512.4	10497.4	10382.5	9962.8	9708.0	9268.3	9013.5	8958.5	8763.6	8838.6
10°	10727.2	10802.2	10727.2	10102.7	9518.1	8933.5	8503.8	8109.1	7954.2	7829.3	7754.4
12.5°	11087.0	11052.0	10617.3	9772.9	8953.5	8259.0	7619.5	7204.8	7049.9	6940.0	6930.0
15°	11391.7	11216.9	10552.4	9253.3	8074.1	7334.7	6810.1	6515.3	6445.3	6455.3	6500.3
17.5°	11496.7	11376.8	10212.6	8713.7	7419.6	6550.3	6305.4	6260.5	6325.4	6400.4	6420.3
20°	11661.5	11471.7	10072.7	7979.2	6610.2	6060.6	6045.6	6205.5	6325.4	6435.3	6450.3
22.5°	12006.3	11526.6	9618.0	7284.7	6055.6	5915.7	6060.6	6195.5	6380.4	6470.3	6390.4
25°	12106.2	11406.7	8978.5	6450.3	5705.9	5825.8	5980.7	6165.5	6295.4	6345.4	6380.4
27.5°	12191.2	11221.9	8114.1	5895.7	5595.9	5820.8	5980.7	6135.6	6205.5	6250.5	6290.4
30°	12431.0	11166.9	7364.7	5526.0	5526.0	5720.9	5925.7	5965.7	6060.6	6115.6	6185.5
32.5°	12550.9	10787.2	6595.2	5291.2	5456.0	5770.8	5785.8	5860.8	5865.7	5910.7	5835.8
35°	12865.7	10517.4	5880.7	5121.3	5486.0	5720.9	5795.8	5750.8	5506.0	5386.1	5411.1
37.5°	13095.5	10382.5	5366.1	5101.3	5491.0	5775.8	5815.8	5476.0	5221.2	5021.4	5071.3
40°	13715.1	10047.7	4976.4	5066.3	5536.0	5835.8	5725.8	5356.1	4896.5	4691.6	4656.6
42.5°	14189.7	9807.9	4731.6	5026.4	5571.0	5920.7	5680.9	5116.3	4646.6	4456.8	4506.7
45°	14739.3	9752.9	4601.7	5036.3	5630.9	5965.7	5625.9	4931.4	4431.8	4356.8	4341.9
47.5°	14934.2	9358.2	4461.8	4951.4	5615.9	5950.7	5441.1	4791.5	4351.8	4361.8	4401.8
50°	14609.4	8953.5	4356.8	4776.5	5516.0	5815.8	5151.3	4606.7	4306.9	4431.8	4501.7
52.5°	14194.7	8538.8	4142.0	4541.7	5311.1	5605.9	5016.4	4596.7	4261.9	4221.9	4236.9
55°	14319.6	8199.1	3842.2	4221.9	4981.4	5216.2	4866.5	4501.7	4152.0	4002.1	4052.1
56°	13914.9	7849.3	3647.4	4022.1	4756.6	4966.4	4791.5	4416.8	4062.1	3962.1	3962.1
57.5°	12770.7	6675.2	3392.5	3702.3	4281.9	4531.7	4646.6	4366.8	3962.1	3787.3	3792.3
60°	9418.2	4746.6	3042.8	3262.6	3547.4	3747.3	4281.9	4226.9	3712.3	3592.4	3547.4
62.5°	5805.8	3467.5	2793.0	2877.9	3022.8	3187.7	3737.3	3827.2	3447.5	3317.6	3287.6
65°	3252.6	2653.1	2603.1	2638.1	2708.0	2793.0	3102.8	3302.6	3042.8	2842.9	2832.9
67.5°	2378.3	2373.3	2413.3	2443.2	2473.2	2473.2	2548.2	2628.1	2593.1	2433.2	2418.2
70°	2113.5	2128.5	2158.4	2163.4	2173.4	2138.4	2078.5	2053.5	2093.5	1993.6	1973.6
72.5°	1743.7	1793.7	1828.7	1833.7	1778.7	1733.7	1653.8	1568.9	1538.9	1518.9	1513.9
75°	1339.0	1374.0	1389.0	1384.0	1364.0	1299.1	1204.1	1119.2	1064.2	1004.3	1034.3
77.5°	904.3	954.3	979.3	979.3	949.3	849.4	804.4	739.5	684.5	619.6	629.5
80°	634.5	669.5	709.5	704.5	654.5	604.6	539.6	479.7	434.7	384.7	379.7
82.5°	474.7	494.6	514.6	504.6	469.7	419.7	374.7	319.8	269.8	234.8	234.8
85°	169.9	184.9	224.8	234.8	254.8	254.8	214.8	179.9	144.9	119.9	119.9
87.5°	50.0	50.0	55.0	55.0	50.0	55.0	45.0	50.0	55.0	35.0	35.0
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)