

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: P457003

Luminaire Tested: **GALN-SA8B-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33239 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

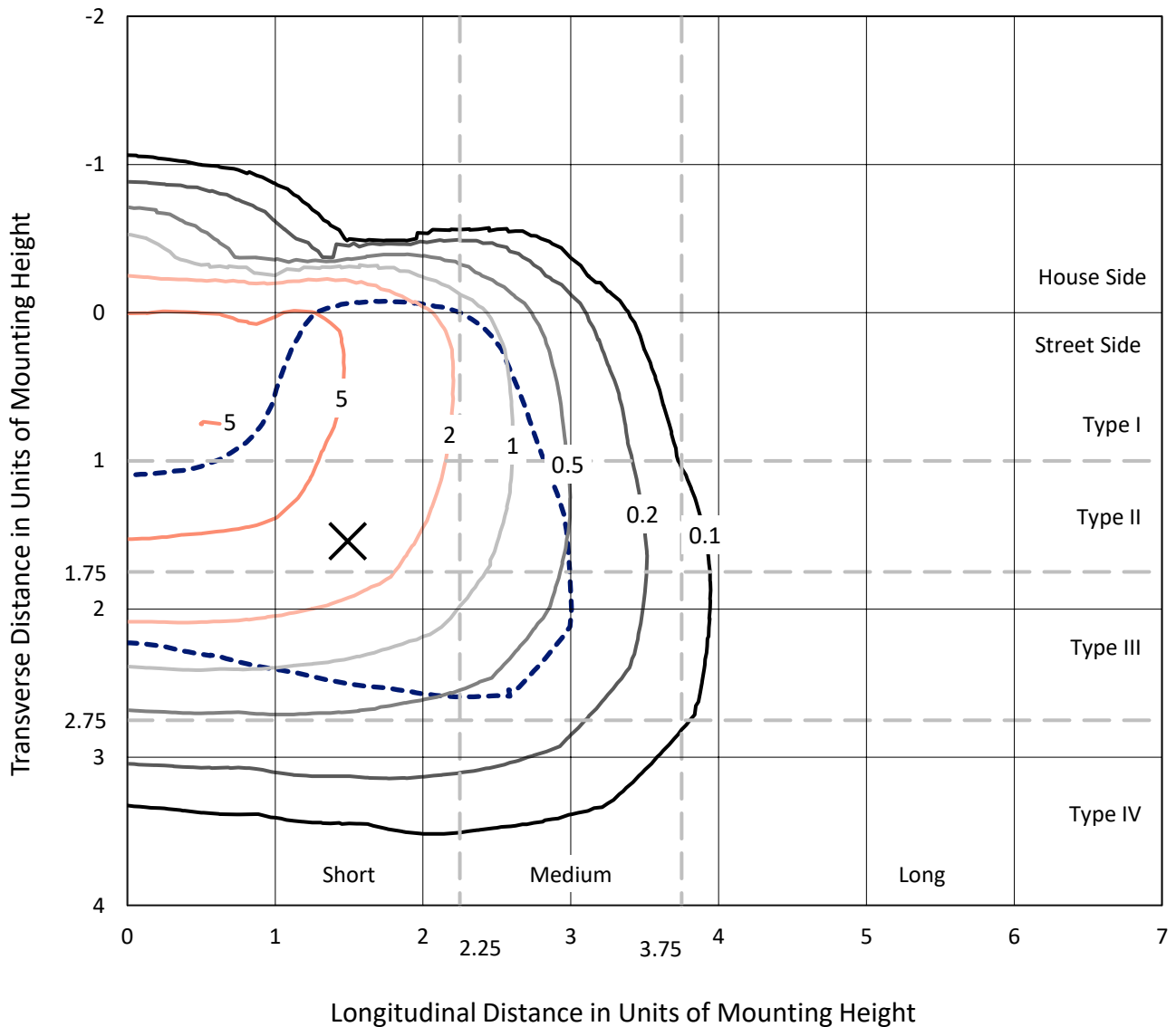
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

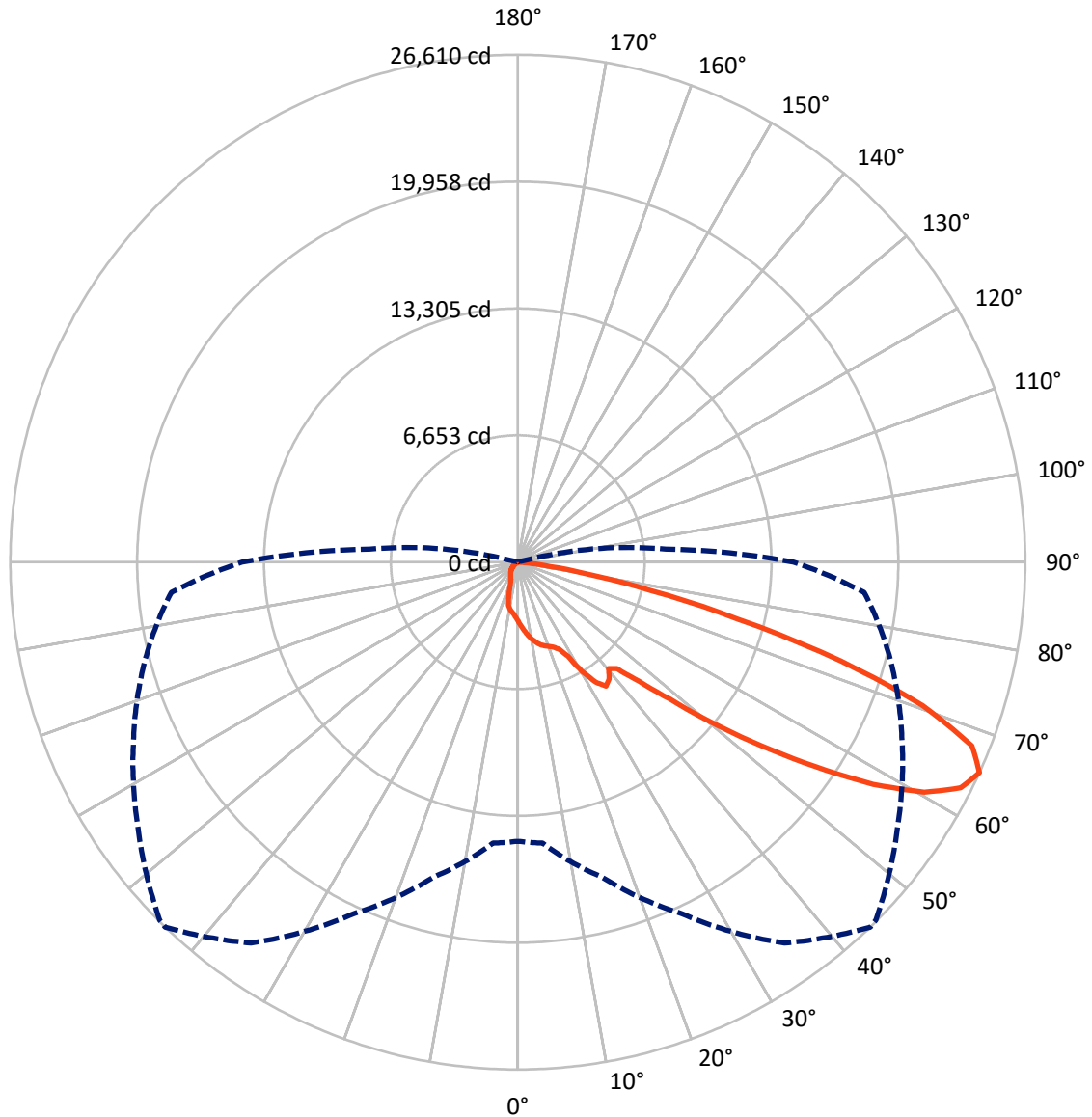
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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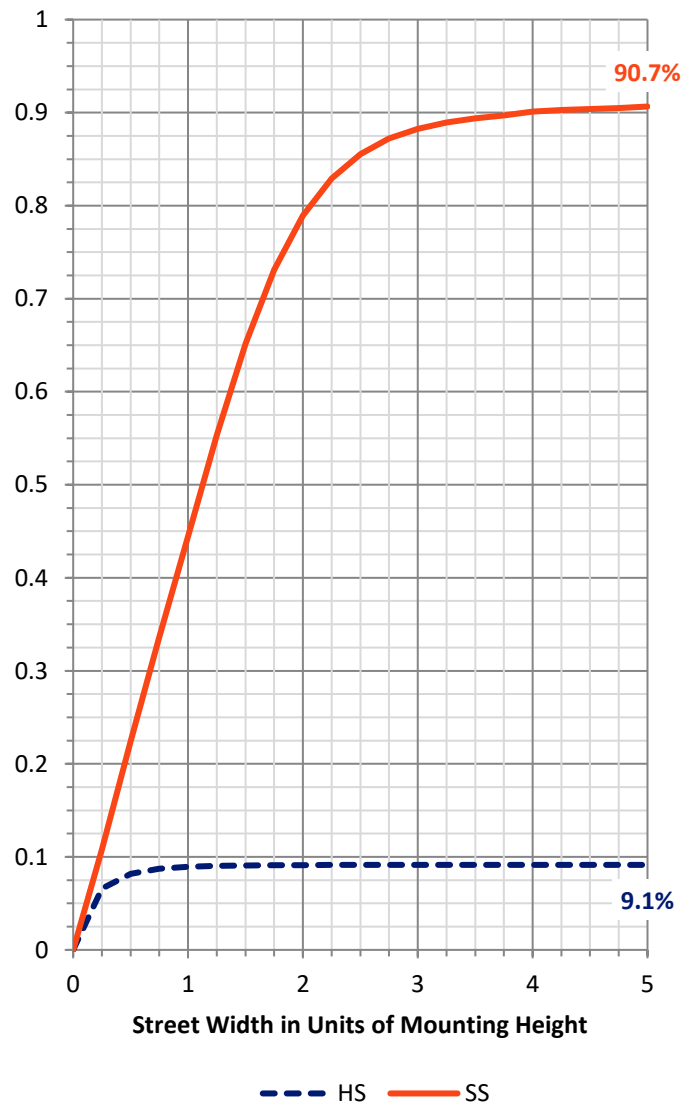
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3062.5	0.0	3062.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	30176.5	0.0	30176.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	33239.0	0.0	33239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	0.9
10°-20°	926.0	2.8
20°-30°	1570.2	4.7
30°-40°	2610.8	7.9
40°-50°	4558.4	13.7
50°-60°	8905.6	26.8
60°-70°	10332.6	31.1
70°-80°	3762.6	11.3
80°-90°	265.1	0.8
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°	33239.0	100.0
0°-180°	33239.0	100.0

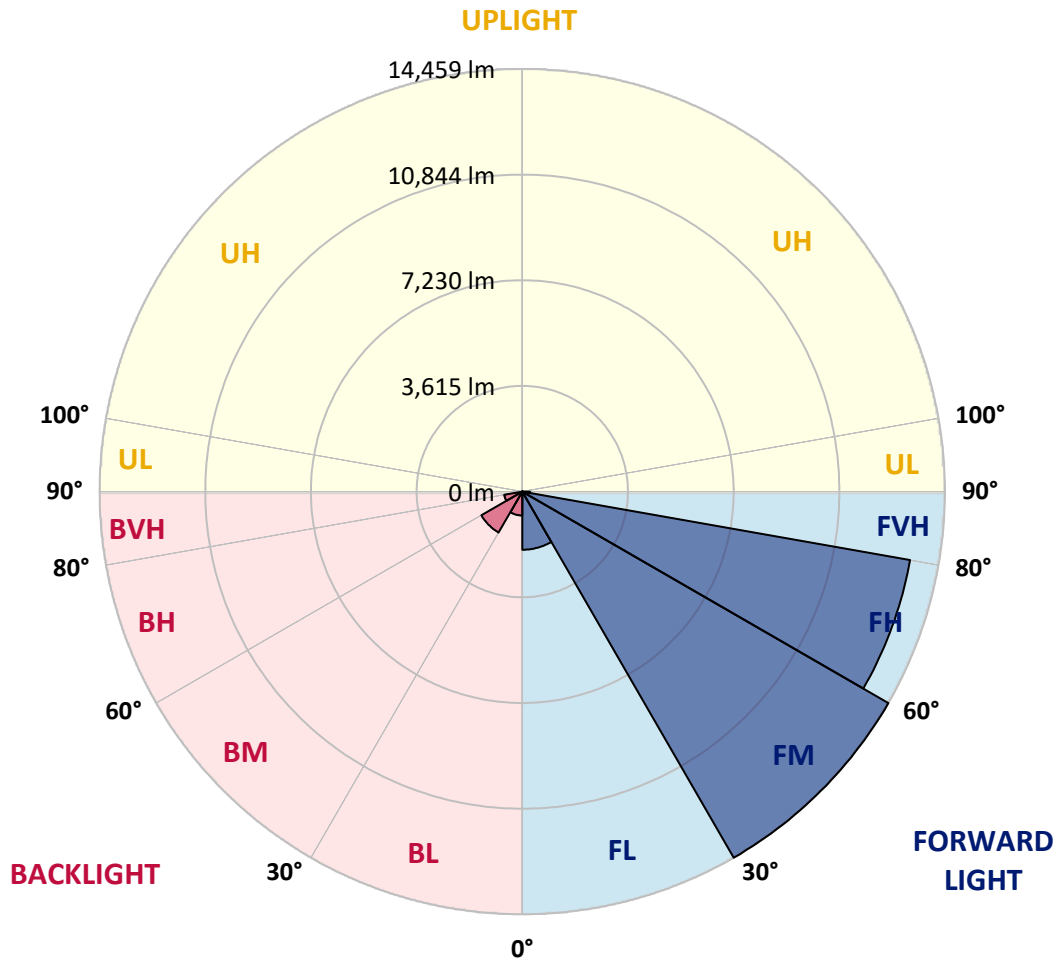


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1988.0	6.0			
FM	(30°-60°)	14459.0	43.5			
FH	(60°-80°)	13468.0	40.5			G5
FVH	(80°-90°)	261.5	0.8			G3/500
BL	(0°-30°)	815.9	2.5	B2/1000		
BM	(30°-60°)	1615.8	4.9	B2/2500		
BH	(60°-80°)	627.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6
2.5°	3482.2	3466.9	3459.3	3418.7	3388.2	3350.1	3350.1	3301.8	3246.0	3185.0	3129.1
5°	3870.8	3845.4	3812.3	3776.8	3705.7	3604.1	3604.1	3502.5	3385.6	3281.5	3167.2
7.5°	4244.1	4221.3	4165.4	4096.8	3980.0	3873.3	3865.7	3718.4	3578.7	3421.2	3258.7
10°	4571.8	4554.0	4505.7	4373.7	4251.7	4112.0	4109.5	3944.4	3781.9	3588.8	3388.2
12.5°	4800.4	4802.9	4739.4	4612.4	4454.9	4322.9	4312.7	4150.1	3980.0	3771.7	3525.3
15°	4962.9	4962.9	4896.9	4754.6	4612.4	4495.6	4485.4	4343.2	4167.9	3941.9	3675.2
17.5°	5008.6	5023.9	4952.7	4825.7	4711.5	4609.9	4607.3	4487.9	4348.3	4129.8	3827.6
20°	4990.8	5006.1	4950.2	4851.1	4772.4	4714.0	4706.4	4658.1	4528.6	4322.9	3990.1
22.5°	4952.7	4968.0	4927.3	4868.9	4830.8	4848.6	4835.9	4876.5	4808.0	4559.1	4183.2
25°	4960.4	4975.6	4945.1	4912.1	4945.1	5054.3	5087.4	5262.6	5201.7	4858.8	4391.4
27.5°	5199.1	5229.6	5186.4	5201.7	5318.5	5572.5	5636.0	5938.2	5669.0	5239.7	4716.5
30°	5729.9	5709.6	5628.3	5702.0	6108.4	6646.8	6629.1	6580.8	6159.2	5679.1	5102.6
32.5°	6212.5	6194.7	6189.7	6507.1	7243.7	7505.3	7492.6	7025.3	6598.6	6182.0	5483.6
35°	6408.1	6339.5	6324.3	7093.9	8325.7	7980.3	7901.5	7208.1	7132.0	6730.7	5872.2
37.5°	6997.3	6949.1	6712.9	7190.4	7893.9	7779.6	7718.7	7523.1	7700.9	7215.8	6311.6
40°	8211.4	8076.8	7863.4	7396.1	7281.8	7330.1	7391.0	7926.9	8373.9	7878.7	6898.3
42.5°	9720.1	9689.6	9293.4	8422.2	7566.3	7632.3	7711.0	8770.2	9341.6	8876.8	7855.8
45°	11531.0	11574.2	11002.7	9974.1	8851.4	8907.3	9021.6	10014.7	10652.2	10428.7	9362.0
47.5°	13176.8	13143.8	12950.8	11881.5	10845.2	10720.8	10906.2	11612.3	12465.7	12501.2	11231.3
50°	14832.8	15008.1	14721.1	14302.0	13532.4	13270.8	13202.2	13547.7	14848.1	14677.9	13476.5
52.5°	17212.7	17304.1	16765.7	16659.0	16834.2	15985.9	15917.4	16001.2	17164.4	16580.3	15157.9
55°	18708.7	18655.3	18454.7	19287.8	19981.1	18922.0	18835.7	18497.9	19087.1	17923.9	16775.8
57.5°	19181.1	19257.3	19724.6	21230.8	22871.5	21972.4	21814.9	20854.9	20473.9	19176.0	18264.2
60°	18970.3	19110.0	20118.3	22358.5	24634.2	24499.6	24365.0	22752.1	21469.5	20222.4	19308.1
62.5°	17469.2	17664.8	19277.6	22157.8	25231.1	26071.7	25904.1	23935.7	22132.4	20730.4	19490.9
65°	14639.8	14784.6	17100.9	20336.7	24382.7	26610.2	26549.2	24306.5	22236.5	20265.6	18238.8
67.5°	10436.3	10929.1	13075.2	17139.0	21873.3	25690.8	25794.9	23862.1	21258.7	18256.6	15104.6
70°	6560.5	6895.7	8434.9	12270.1	17535.3	22538.8	22881.7	21827.6	18449.6	14230.9	10111.2
72.5°	3129.1	3378.0	4475.2	7766.9	12376.8	17733.4	18005.1	17918.8	14266.4	8965.7	5216.9
75°	1394.4	1488.4	2136.0	3964.7	7990.4	11919.6	12623.1	12740.0	8914.9	4386.4	2029.4
77.5°	711.2	713.7	1000.7	1920.1	3990.1	7111.6	7251.3	7660.2	4833.4	1932.8	706.1
80°	378.4	403.8	530.8	906.7	2070.0	3502.5	3484.7	3830.1	2143.6	947.4	236.2
82.5°	170.2	188.0	299.7	475.0	1010.9	1328.4	1432.5	1567.1	919.4	604.5	104.1
85°	50.8	61.0	147.3	238.7	365.7	383.5	429.2	553.7	520.7	429.2	53.3
87.5°	7.6	7.6	61.0	66.0	53.3	68.6	71.1	78.7	167.6	157.5	27.9
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°	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6
2.5°	3098.6	3080.9	3017.4	2964.0	2918.3	2890.4	2857.4	2837.0	2826.9	2819.3	2821.8
5°	3111.3	3068.2	2958.9	2872.6	2806.6	2735.4	2687.2	2659.2	2646.5	2626.2	2626.2
7.5°	3182.5	3113.9	2961.5	2829.4	2715.1	2618.6	2527.2	2494.2	2471.3	2466.2	2461.1
10°	3284.0	3197.7	2989.4	2806.6	2644.0	2511.9	2382.4	2268.1	2179.2	2125.9	2118.3
12.5°	3411.0	3286.6	3032.6	2791.3	2583.0	2349.4	2006.5	1775.4	1620.4	1572.2	1579.8
15°	3527.9	3393.3	3075.8	2778.6	2471.3	1948.1	1559.5	1295.3	1216.6	1209.0	1211.5
17.5°	3667.6	3507.6	3126.6	2760.8	2164.0	1488.4	1158.2	1087.1	1102.3	1127.7	1125.2
20°	3812.3	3629.5	3187.5	2654.2	1727.1	1120.1	1023.6	1031.2	1054.0	1076.9	1082.0
22.5°	3967.3	3769.2	3258.7	2397.6	1318.2	975.3	970.2	980.4	1003.2	1028.6	1033.7
25°	4180.6	3944.4	3312.0	2062.4	998.2	901.7	911.8	929.6	949.9	977.8	982.9
27.5°	4454.9	4180.6	3339.9	1625.5	863.6	835.6	838.2	863.6	889.0	914.4	914.4
30°	4810.5	4462.5	3284.0	1229.3	797.5	772.1	762.0	777.2	810.2	835.6	838.2
32.5°	5128.0	4729.2	3136.7	939.8	749.3	713.7	688.3	690.8	703.5	718.8	721.3
35°	5445.5	4988.3	2885.3	789.9	698.5	657.8	619.7	599.4	589.2	581.6	589.2
37.5°	5851.9	5310.9	2550.0	718.8	655.3	604.5	551.2	508.0	472.4	449.6	454.6
40°	6375.1	5757.9	2153.8	673.1	614.6	553.7	482.6	426.7	365.7	345.4	335.3
42.5°	7238.6	6436.0	1737.3	635.0	574.0	500.4	411.5	335.3	279.4	259.1	264.1
45°	8602.5	7292.0	1338.5	594.3	533.4	441.9	345.4	264.1	218.4	208.3	213.3
47.5°	10410.9	8399.3	1031.2	548.6	482.6	378.4	271.8	208.3	180.3	177.8	175.3
50°	12112.6	9430.5	861.0	497.8	421.6	314.9	223.5	175.3	157.5	154.9	154.9
52.5°	13651.8	10169.6	701.0	439.4	355.6	259.1	188.0	154.9	139.7	132.1	132.1
55°	15020.8	10652.2	568.9	368.3	279.4	205.7	162.6	139.7	121.9	111.8	109.2
57.5°	16054.5	10710.6	426.7	294.6	208.3	160.0	139.7	121.9	101.6	88.9	83.8
60°	16496.4	10205.2	314.9	223.5	154.9	127.0	111.8	99.1	76.2	63.5	61.0
62.5°	16052.0	9222.3	233.7	170.2	119.4	94.0	78.7	73.7	53.3	38.1	35.6
65°	14459.5	7802.5	185.4	129.5	88.9	68.6	50.8	48.3	33.0	17.8	15.2
67.5°	11584.3	6110.9	147.3	96.5	63.5	45.7	33.0	30.5	17.8	5.1	5.1
70°	7533.2	3906.3	119.4	71.1	40.6	30.5	20.3	15.2	10.2	2.5	0.0
72.5°	3726.0	1826.2	96.5	55.9	27.9	15.2	7.6	5.1	7.6	0.0	0.0
75°	1445.2	650.2	71.1	38.1	15.2	7.6	5.1	0.0	2.5	0.0	0.0
77.5°	480.0	215.9	43.2	20.3	10.2	5.1	0.0	0.0	0.0	0.0	0.0
80°	177.8	83.8	22.9	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	71.1	33.0	15.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.6	20.3	10.2	7.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.4	15.2	10.2	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
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)