

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: P454209

Luminaire Tested: **GALN-SA5B-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21302 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

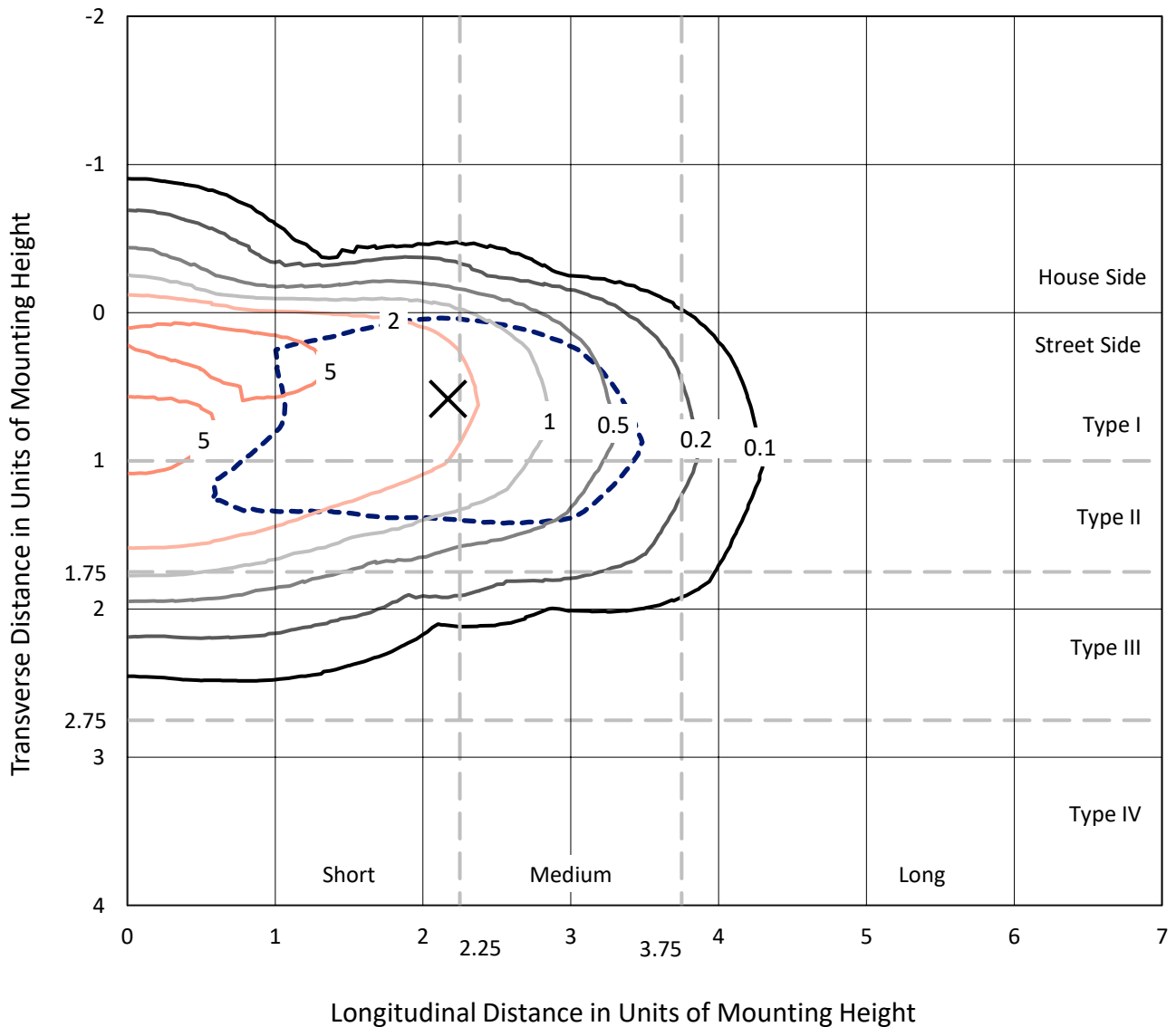
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

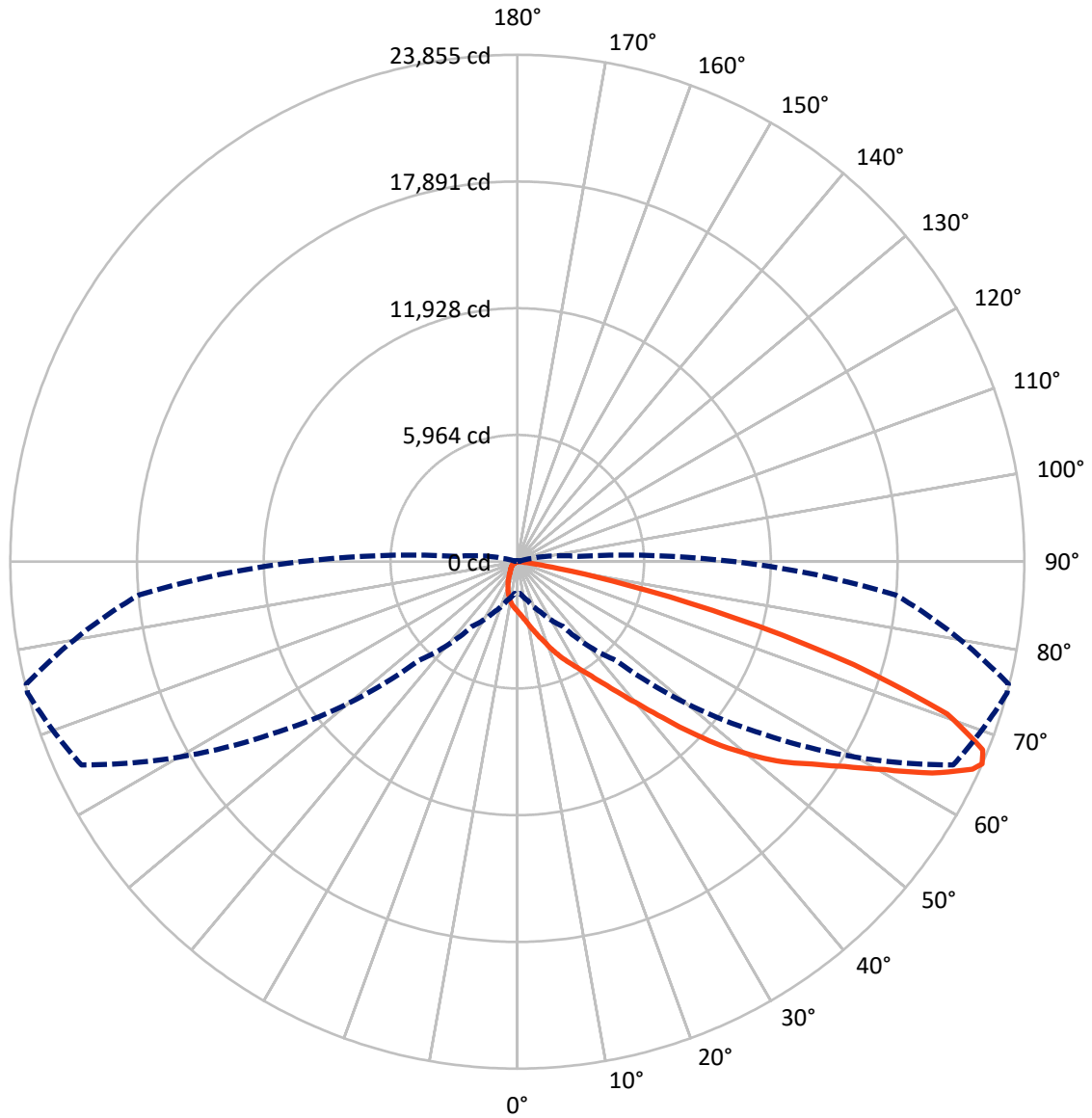
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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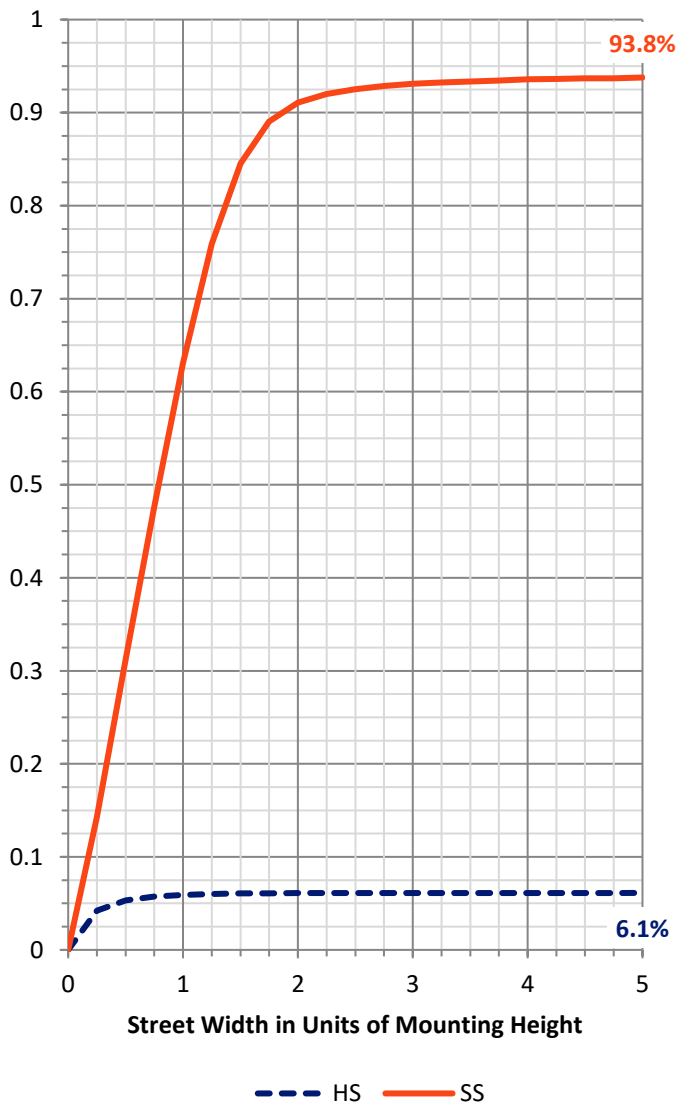
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.1	0.0	1315.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19986.9	0.0	19986.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	21302.0	0.0	21302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	1.1
10°-20°	661.3	3.1
20°-30°	1141.9	5.4
30°-40°	2059.7	9.7
40°-50°	3720.9	17.5
50°-60°	5801.0	27.2
60°-70°	5510.7	25.9
70°-80°	2065.3	9.7
80°-90°	116.5	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°	21302.0	100.0
0°-180°	21302.0	100.0

Coefficient of Utilization



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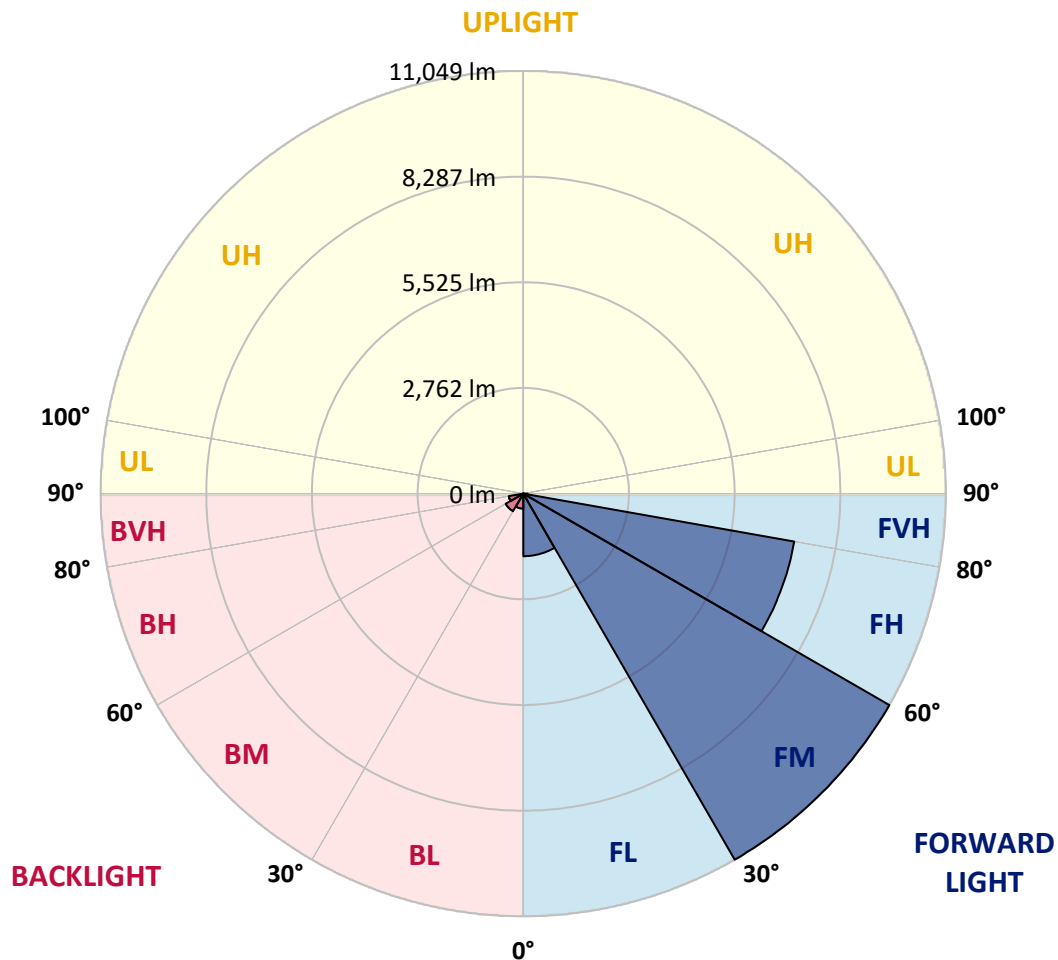
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.1	7.7			
FM (30°-60°)	11049.3	51.9			
FH (60°-80°)	7192.0	33.8			G3/7500
FVH (80°-90°)	110.5	0.5			G2/225
BL (0°-30°)	392.7	1.8	B1/500		
BM (30°-60°)	532.3	2.5	B1/1000		
BH (60°-80°)	384.0	1.8	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6
2.5°	2783.2	2748.6	2759.6	2743.8	2707.6	2654.1	2606.8	2539.1	2471.3	2460.3	2384.7
5°	3150.2	3140.8	3128.2	3082.5	3057.3	2975.4	2877.7	2761.2	2621.0	2595.8	2458.7
7.5°	3400.7	3395.9	3402.2	3378.6	3356.6	3282.5	3178.6	3019.5	2802.1	2787.9	2559.5
10°	3482.6	3495.2	3518.8	3556.6	3591.2	3567.6	3488.9	3290.4	3036.8	2995.9	2674.5
12.5°	3435.3	3449.5	3506.2	3607.0	3718.8	3783.4	3751.9	3607.0	3285.7	3252.6	2803.7
15°	3314.0	3331.4	3411.7	3567.6	3767.7	3950.4	4029.1	3925.2	3575.5	3521.9	2959.6
17.5°	3134.5	3159.7	3274.6	3481.0	3755.1	4070.1	4292.2	4257.5	3884.2	3833.8	3129.7
20°	2999.0	3017.9	3115.6	3351.8	3701.5	4136.2	4542.6	4640.3	4265.4	4178.8	3329.8
22.5°	3088.8	3095.1	3128.2	3269.9	3605.4	4153.6	4763.1	5038.8	4670.2	4593.0	3537.7
25°	3528.2	3465.2	3432.2	3400.7	3584.9	4137.8	4963.2	5454.6	5073.4	4991.5	3744.0
27.5°	4221.3	4192.9	4026.0	3802.3	3759.8	4158.3	5095.5	5848.4	5453.0	5364.8	3945.6
30°	4975.8	4926.9	4824.6	4496.9	4167.7	4303.2	5191.6	6231.1	5901.9	5785.4	4129.9
32.5°	5668.8	5700.3	5547.5	5210.5	4829.3	4611.9	5316.0	6648.5	6417.0	6272.1	4344.1
35°	6476.8	6539.8	6305.2	5982.3	5536.5	5169.5	5558.6	7119.5	7070.7	6887.9	4674.9
37.5°	7297.5	7335.3	7191.9	6738.3	6336.7	5878.3	6015.3	7700.7	7875.5	7719.6	5070.3
40°	7987.4	8039.3	7933.8	7530.6	7102.2	6698.9	6678.5	8333.9	8833.2	8672.5	5659.4
42.5°	8515.0	8554.4	8557.6	8272.5	7886.6	7703.9	7524.3	9141.9	10033.4	9847.6	6343.0
45°	9181.3	9238.0	9204.9	9011.2	8722.9	8689.9	8596.9	10118.5	11469.9	11235.2	7229.7
47.5°	10211.4	10249.2	10167.3	9938.9	9646.0	9697.9	9642.8	11213.2	12934.8	12733.2	8148.0
50°	10926.5	10989.5	11106.1	11197.4	10984.8	10792.6	10628.8	12235.4	14325.6	14144.5	9086.8
52.5°	10918.6	11022.6	11391.2	11851.1	12315.8	12257.5	11786.5	13364.8	15653.4	15429.8	9968.9
55°	10183.1	10384.7	10926.5	11742.4	13029.3	13670.4	13456.1	14672.1	16800.1	16648.9	10991.1
57.5°	8664.7	8787.5	9540.4	10680.8	12630.8	14335.1	15390.4	16444.1	18175.2	18104.3	12578.8
60°	5827.9	5883.0	6851.7	8261.4	10753.3	13671.9	16808.0	18587.8	19868.4	19833.8	14432.7
62.5°	3339.2	3362.9	4065.4	5254.6	7651.9	11586.5	16927.7	21232.5	21898.7	21917.6	16578.0
65°	1797.2	1809.8	2376.8	3084.1	4656.0	8258.3	15221.8	22681.6	23540.0	23576.2	17907.4
66°	1551.5	1491.6	1891.7	2628.9	3704.7	6572.9	14142.9	22629.6	23855.0	23815.6	17860.1
67.5°	1179.8	1233.3	1510.5	2020.9	2745.4	4673.3	11676.3	21623.1	23615.6	23492.7	17134.0
70°	844.3	866.3	1075.8	1441.2	1869.7	2564.3	7461.3	17959.4	21464.0	21298.6	14927.3
72.5°	545.0	568.6	762.4	1042.7	1351.4	1400.3	4177.2	12975.7	16548.1	16524.5	11241.5
75°	389.1	411.1	504.0	746.6	1015.9	866.3	2011.4	8745.0	10520.1	10449.3	6954.1
77.5°	281.9	293.0	337.1	488.3	726.1	620.6	932.5	4670.2	5237.2	5484.5	3073.0
80°	162.2	171.7	234.7	297.7	491.4	423.7	445.8	1874.4	1932.7	1839.7	960.8
82.5°	80.3	91.4	140.2	203.2	307.1	285.1	204.8	563.9	595.4	579.6	242.6
85°	18.9	23.6	78.8	133.9	149.6	127.6	99.2	165.4	204.8	200.0	92.9
87.5°	1.6	3.2	28.4	23.6	25.2	42.5	34.7	42.5	66.2	61.4	33.1
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°	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6
2.5°	2350.1	2320.1	2233.5	2148.4	2077.6	2003.5	1935.8	1896.4	1880.7	1863.4	1871.2
5°	2383.1	2310.7	2135.8	1984.6	1836.6	1710.6	1609.8	1545.2	1513.7	1509.0	1501.1
7.5°	2427.2	2302.8	2031.9	1795.6	1601.9	1461.7	1346.7	1253.8	1225.4	1200.2	1179.8
10°	2480.8	2288.6	1902.7	1597.2	1390.8	1214.4	1063.2	952.9	896.2	880.5	891.5
12.5°	2537.5	2261.9	1767.3	1414.4	1176.6	951.4	811.2	756.1	740.3	734.0	735.6
15°	2594.2	2228.8	1625.5	1238.0	937.2	759.2	694.6	680.4	674.1	671.0	667.8
17.5°	2646.2	2175.2	1466.4	1066.3	759.2	648.9	625.3	612.7	600.1	595.4	587.5
20°	2707.6	2113.8	1323.1	874.2	642.6	587.5	559.2	535.5	516.6	504.0	502.5
22.5°	2765.9	2035.0	1173.5	724.5	585.9	527.7	482.0	456.8	434.7	419.0	423.7
25°	2797.4	1939.0	1039.6	631.6	534.0	467.8	417.4	385.9	362.3	354.4	352.8
27.5°	2797.4	1820.8	908.8	578.1	486.7	414.3	362.3	332.3	316.6	305.6	307.1
30°	2775.3	1690.1	787.6	537.1	445.8	367.0	318.2	291.4	278.8	270.9	269.3
32.5°	2758.0	1565.7	683.6	497.7	403.2	326.0	283.5	263.0	250.4	242.6	242.6
35°	2784.8	1458.5	603.3	458.4	363.8	294.5	256.7	237.8	225.2	218.9	217.4
37.5°	2855.7	1360.9	541.8	415.8	327.6	267.8	237.8	215.8	203.2	195.3	192.2
40°	3030.5	1305.8	496.2	376.5	293.0	245.7	215.8	195.3	179.6	171.7	170.1
42.5°	3310.9	1307.3	452.1	340.2	266.2	226.8	196.9	173.3	155.9	148.1	146.5
45°	3733.0	1367.2	417.4	305.6	242.6	206.3	176.4	151.2	135.5	127.6	127.6
47.5°	4238.6	1483.8	387.5	275.6	220.5	187.4	155.9	130.7	115.0	108.7	108.7
50°	4786.8	1635.0	357.5	244.1	201.6	167.0	133.9	113.4	100.8	96.1	96.1
52.5°	5345.9	1817.7	327.6	218.9	181.1	144.9	115.0	100.8	89.8	86.6	85.1
55°	6079.9	2050.8	296.1	192.2	159.1	124.4	102.4	88.2	75.6	70.9	69.3
57.5°	7209.3	2402.0	261.5	168.5	130.7	104.0	88.2	74.0	59.9	52.0	50.4
60°	8571.7	2830.5	225.2	148.1	105.5	85.1	70.9	56.7	44.1	34.7	33.1
62.5°	9847.6	3103.0	190.6	124.4	83.5	64.6	50.4	42.5	31.5	22.1	20.5
65°	10411.5	3011.6	157.5	100.8	66.2	45.7	33.1	29.9	18.9	9.5	7.9
66°	10224.0	2876.1	144.9	91.4	59.9	39.4	28.4	25.2	14.2	4.7	4.7
67.5°	9671.2	2556.4	126.0	78.8	52.0	31.5	22.1	18.9	7.9	1.6	0.0
70°	8286.6	2068.1	99.2	58.3	37.8	22.1	12.6	9.5	4.7	0.0	0.0
72.5°	6365.0	1540.5	78.8	44.1	26.8	12.6	6.3	3.2	4.7	0.0	0.0
75°	3900.0	880.5	61.4	33.1	17.3	7.9	4.7	0.0	4.7	1.6	0.0
77.5°	1731.0	395.4	41.0	22.1	12.6	6.3	3.2	0.0	3.2	1.6	0.0
80°	437.9	129.2	23.6	15.8	9.5	4.7	1.6	0.0	3.2	3.2	1.6
82.5°	119.7	47.3	17.3	12.6	7.9	4.7	1.6	0.0	3.2	3.2	3.2
85°	47.3	22.1	15.8	12.6	9.5	4.7	1.6	0.0	3.2	3.2	3.2
87.5°	22.1	15.8	15.8	14.2	11.0	4.7	1.6	0.0	3.2	1.6	3.2
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)