

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: P456152

Luminaire Tested: **GALN-SA7B-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456152
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-SA7B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 21780 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

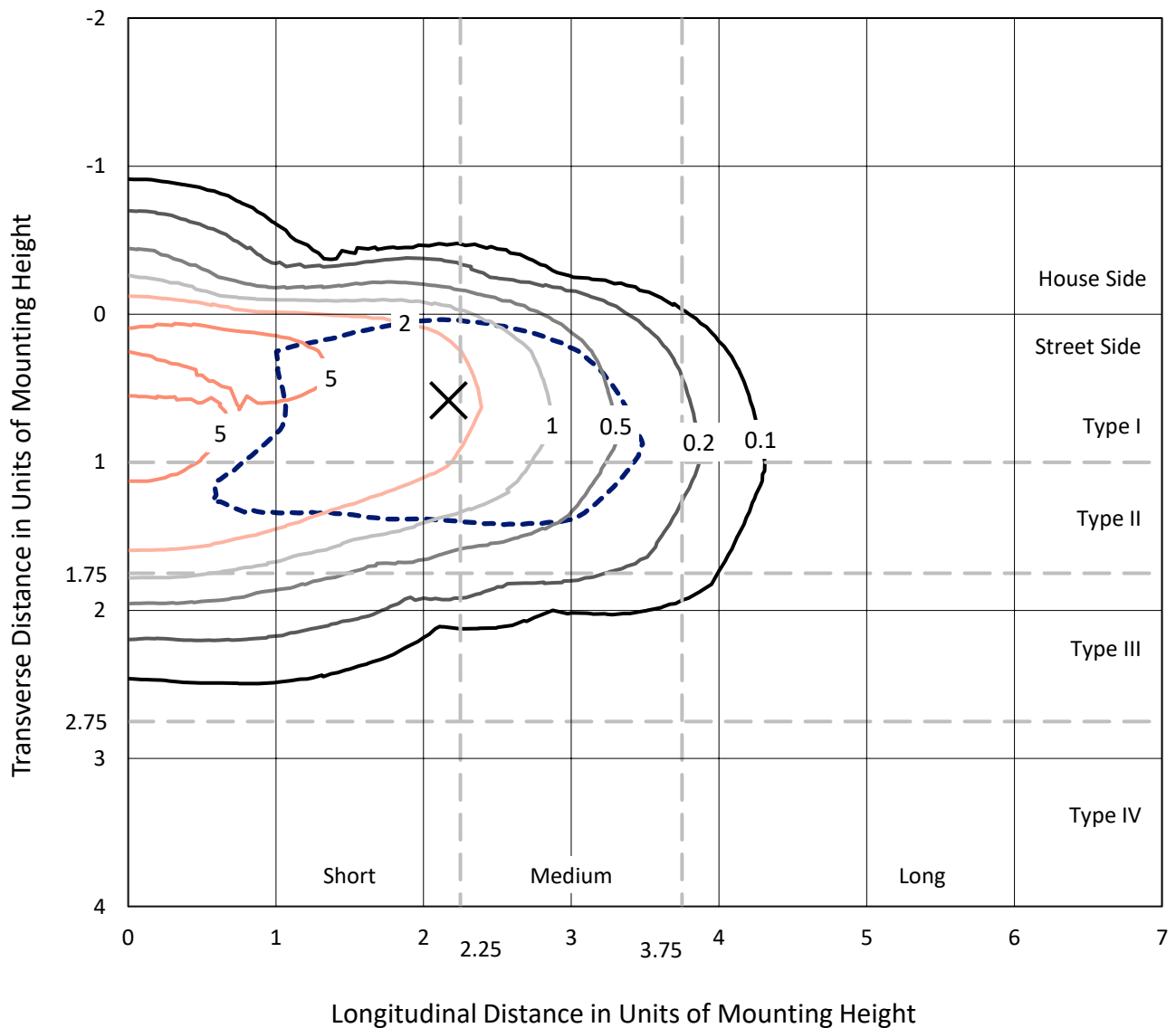
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

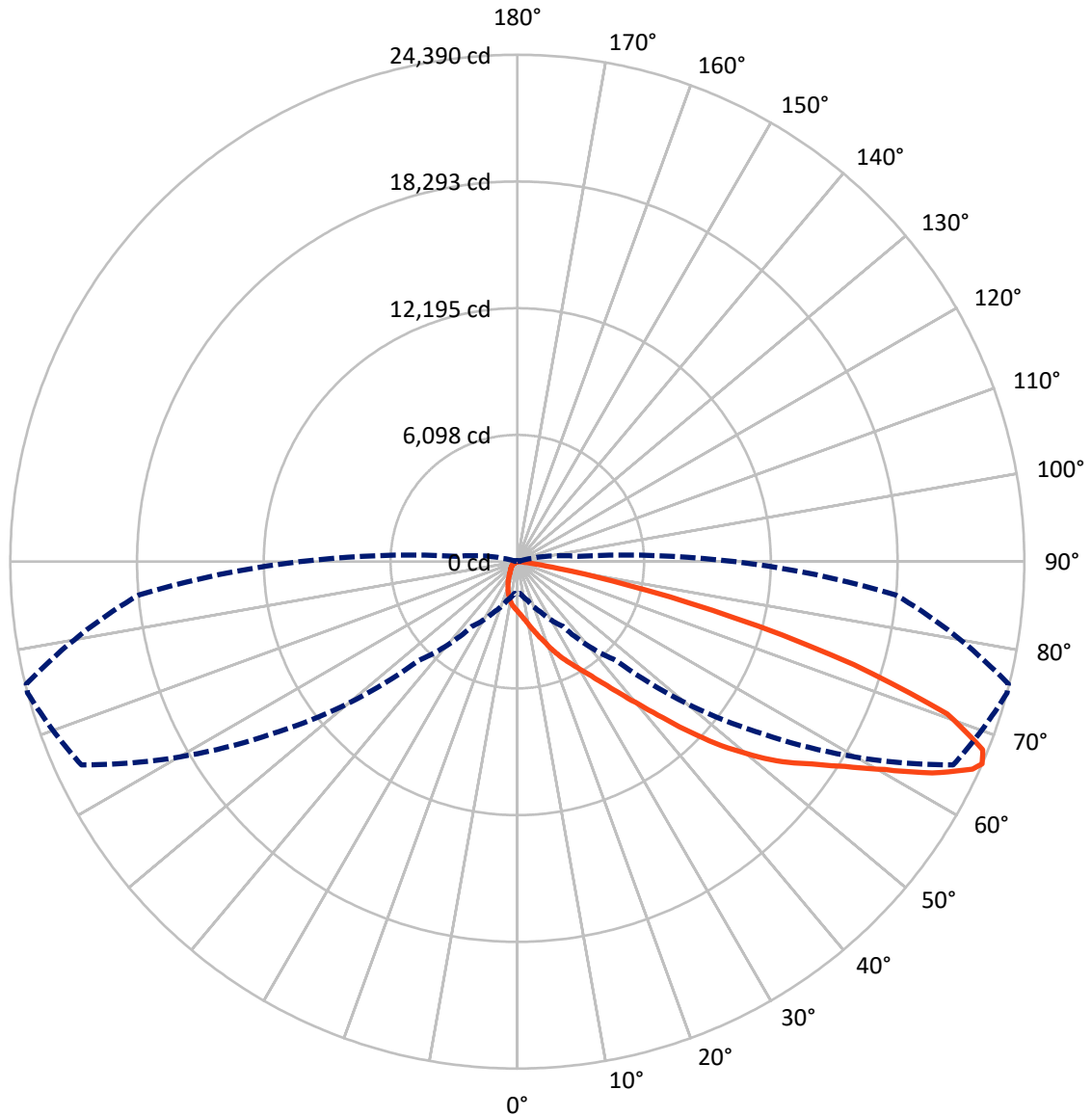
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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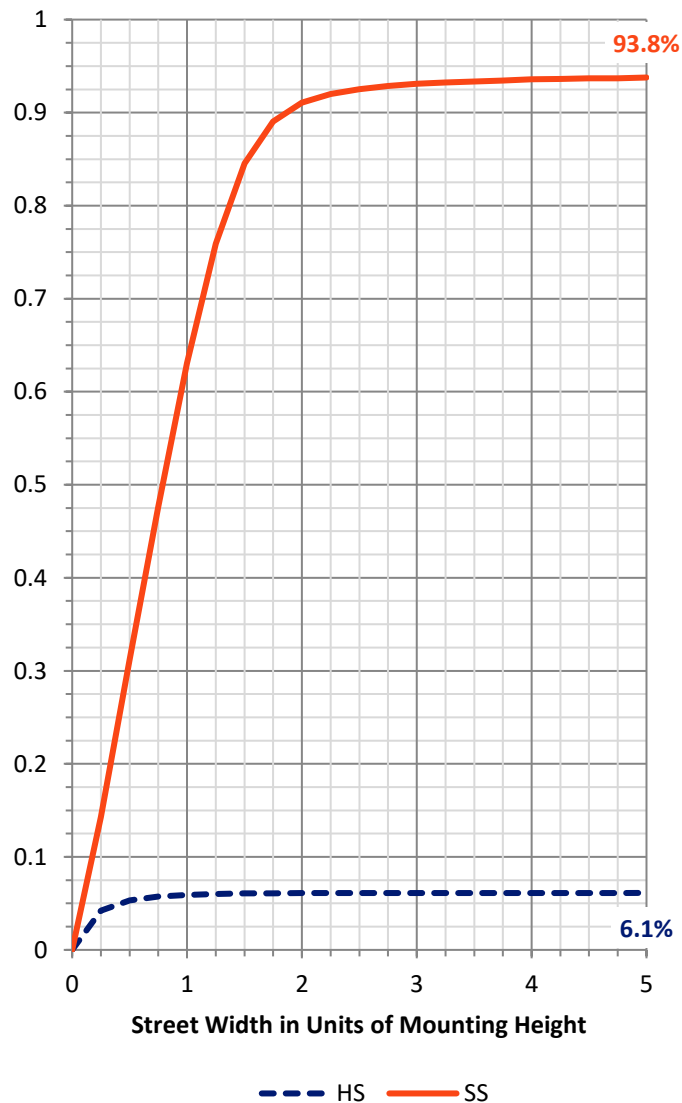
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1344.6	0.0	1344.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	20435.4	0.0	20435.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	21780.0	0.0	21780.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.1
10°-20°	676.1	3.1
20°-30°	1167.5	5.4
30°-40°	2105.9	9.7
40°-50°	3804.4	17.5
50°-60°	5931.2	27.2
60°-70°	5634.3	25.9
70°-80°	2111.6	9.7
80°-90°	119.1	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°	21780.0	100.0
0°-180°	21780.0	100.0



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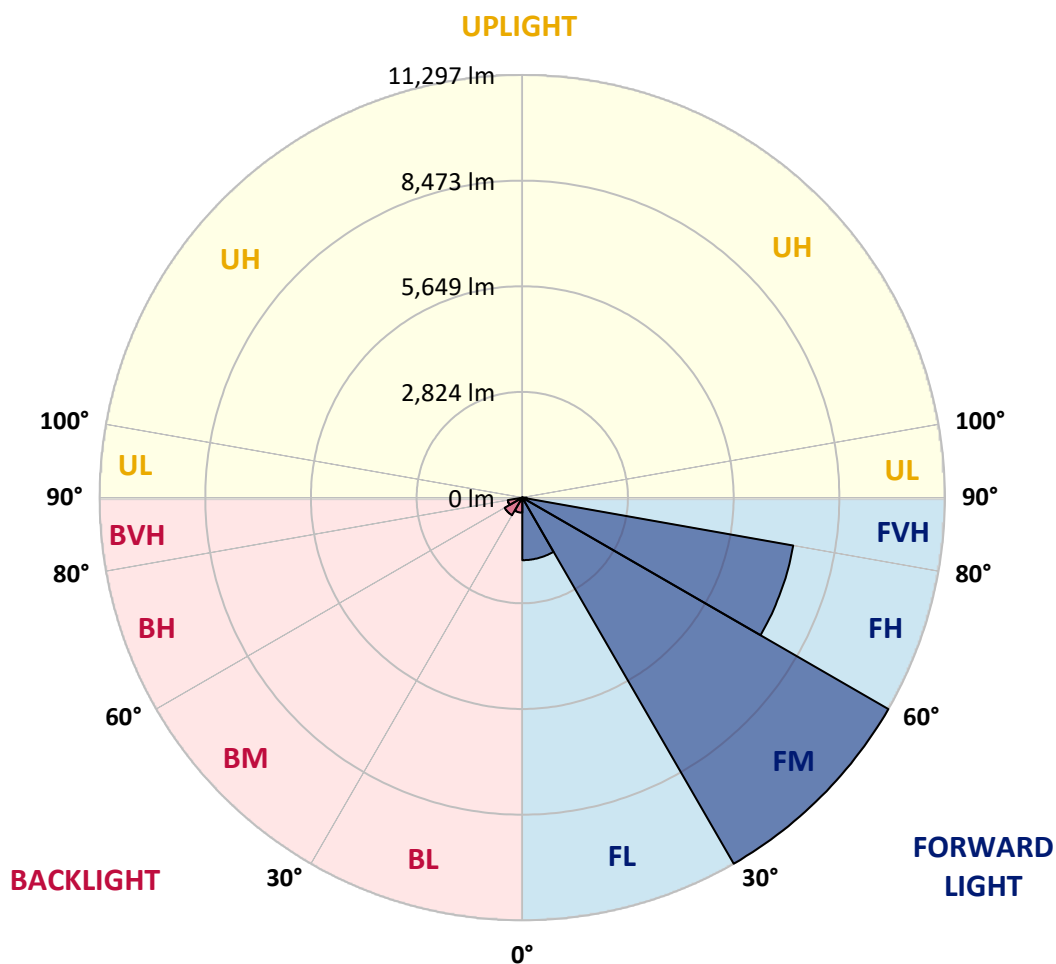
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.8	7.7			
FM (30°-60°)	11297.3	51.9			
FH (60°-80°)	7353.3	33.8			G3/7500
FVH (80°-90°)	113.0	0.5			G2/225
BL (0°-30°)	401.6	1.8	B1/500		
BM (30°-60°)	544.3	2.5	B1/1000		
BH (60°-80°)	392.6	1.8	B1/500		G1/500
BVH (80°-90°)	6.1	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°	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9
2.5°	2845.7	2810.2	2821.5	2805.4	2768.4	2713.6	2665.3	2596.0	2526.8	2515.5	2438.2
5°	3220.9	3211.2	3198.4	3151.7	3125.9	3042.1	2942.3	2823.1	2679.8	2654.0	2513.9
7.5°	3477.0	3472.1	3478.6	3454.4	3431.9	3356.2	3249.9	3087.2	2865.0	2850.5	2617.0
10°	3560.7	3573.6	3597.7	3636.4	3671.8	3647.7	3567.2	3364.2	3105.0	3063.1	2734.5
12.5°	3512.4	3526.9	3584.9	3687.9	3802.3	3868.3	3836.1	3687.9	3359.4	3325.6	2866.6
15°	3388.4	3406.1	3488.2	3647.7	3852.2	4039.0	4119.5	4013.2	3655.7	3601.0	3026.0
17.5°	3204.8	3230.6	3348.1	3559.1	3839.3	4161.4	4388.5	4353.1	3971.4	3919.8	3200.0
20°	3066.3	3085.6	3185.5	3427.0	3784.6	4229.0	4644.5	4744.4	4361.1	4272.5	3404.5
22.5°	3158.1	3164.5	3198.4	3343.3	3686.3	4246.8	4870.0	5151.8	4775.0	4696.1	3617.1
25°	3607.4	3543.0	3509.2	3477.0	3665.4	4230.7	5074.5	5577.0	5187.3	5103.5	3828.0
27.5°	4316.0	4287.0	4116.3	3887.6	3844.1	4251.6	5209.8	5979.6	5575.4	5485.2	4034.2
30°	5087.4	5037.5	4932.8	4597.8	4261.3	4399.8	5308.0	6370.9	6034.4	5915.2	4222.6
32.5°	5796.0	5828.2	5672.0	5327.4	4937.6	4715.4	5435.3	6797.7	6561.0	6412.8	4441.6
35°	6622.2	6686.6	6446.6	6116.5	5660.7	5285.5	5683.3	7279.2	7229.3	7042.5	4779.8
37.5°	7461.2	7499.9	7353.3	6889.5	6478.8	6010.2	6150.3	7873.5	8052.3	7892.8	5184.0
40°	8166.6	8219.7	8111.8	7699.6	7261.5	6849.3	6828.3	8520.9	9031.4	8867.1	5786.4
42.5°	8706.1	8746.4	8749.6	8458.1	8063.5	7876.7	7693.1	9347.1	10258.6	10068.5	6485.3
45°	9387.3	9445.3	9411.5	9213.4	8918.7	8884.9	8789.8	10345.5	11727.3	11487.4	7392.0
47.5°	10440.6	10479.2	10395.5	10162.0	9862.4	9915.6	9859.2	11464.8	13225.0	13018.9	8330.9
50°	11171.7	11236.1	11355.3	11448.7	11231.3	11034.8	10867.3	12510.0	14647.1	14461.9	9290.7
52.5°	11163.7	11269.9	11646.8	12117.0	12592.1	12532.5	12051.0	13664.7	16004.7	15776.0	10192.5
55°	10411.6	10617.7	11171.7	12005.9	13321.7	13977.1	13758.1	15001.4	17177.1	17022.5	11237.7
57.5°	8859.1	8984.7	9754.5	10920.5	12914.2	14656.7	15735.7	16813.1	18583.0	18510.5	12861.1
60°	5958.7	6015.0	7005.5	8446.8	10994.6	13978.7	17185.1	19004.9	20314.2	20278.8	14756.6
62.5°	3414.2	3438.3	4156.6	5372.5	7823.6	11846.5	17307.5	21708.9	22390.1	22409.4	16950.0
65°	1837.5	1850.4	2430.2	3153.3	4760.5	8443.6	15563.4	23190.5	24068.2	24105.2	18309.2
66°	1586.3	1525.1	1934.2	2687.8	3787.8	6720.4	14460.2	23137.4	24390.3	24350.0	18260.9
67.5°	1206.2	1261.0	1544.4	2066.2	2807.0	4778.2	11938.3	22108.3	24145.5	24019.9	17518.5
70°	863.2	885.7	1099.9	1473.6	1911.6	2621.8	7628.7	18362.4	21945.6	21776.5	15262.3
72.5°	557.2	581.4	779.5	1066.1	1381.8	1431.7	4270.9	13266.9	16919.4	16895.3	11493.8
75°	397.8	420.3	515.3	763.4	1038.7	885.7	2056.5	8941.2	10756.2	10683.7	7110.1
77.5°	288.3	299.5	344.6	499.2	742.4	634.5	953.4	4775.0	5354.8	5607.6	3142.0
80°	165.9	175.5	240.0	304.4	502.5	433.2	455.8	1916.4	1976.0	1881.0	982.4
82.5°	82.1	93.4	143.3	207.7	314.0	291.5	209.4	576.5	608.8	592.6	248.0
85°	19.3	24.2	80.5	136.9	153.0	130.4	101.5	169.1	209.4	204.5	95.0
87.5°	1.6	3.2	29.0	24.2	25.8	43.5	35.4	43.5	67.6	62.8	33.8
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°	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9
2.5°	2402.8	2372.2	2283.6	2196.7	2124.2	2048.5	1979.2	1939.0	1922.9	1905.2	1913.2
5°	2436.6	2362.5	2183.8	2029.2	1877.8	1749.0	1645.9	1579.9	1547.6	1542.8	1534.8
7.5°	2481.7	2354.5	2077.5	1835.9	1637.8	1494.5	1376.9	1281.9	1252.9	1227.2	1206.2
10°	2536.5	2340.0	1945.4	1633.0	1422.0	1241.7	1087.1	974.3	916.3	900.2	911.5
12.5°	2594.4	2312.6	1806.9	1446.2	1203.0	972.7	829.4	773.0	756.9	750.5	752.1
15°	2652.4	2278.8	1662.0	1265.8	958.2	776.2	710.2	695.7	689.3	686.1	682.8
17.5°	2705.6	2224.0	1499.3	1090.3	776.2	663.5	639.3	626.5	613.6	608.8	600.7
20°	2768.4	2161.2	1352.8	893.8	657.1	600.7	571.7	547.6	528.2	515.3	513.7
22.5°	2828.0	2080.7	1199.8	740.8	599.1	539.5	492.8	467.0	444.5	428.4	433.2
25°	2860.2	1982.5	1062.9	645.8	545.9	478.3	426.8	394.6	370.4	362.4	360.7
27.5°	2860.2	1861.7	929.2	591.0	497.6	423.5	370.4	339.8	323.7	312.4	314.0
30°	2837.6	1728.0	805.2	549.2	455.8	375.2	325.3	297.9	285.0	277.0	275.4
32.5°	2819.9	1600.8	698.9	508.9	412.3	333.4	289.9	268.9	256.1	248.0	248.0
35°	2847.3	1491.3	616.8	468.6	372.0	301.2	262.5	243.2	230.3	223.9	222.2
37.5°	2919.7	1391.4	554.0	425.2	335.0	273.8	243.2	220.6	207.7	199.7	196.5
40°	3098.5	1335.1	507.3	384.9	299.5	251.2	220.6	199.7	183.6	175.5	173.9
42.5°	3385.2	1336.7	462.2	347.9	272.2	231.9	201.3	177.1	159.4	151.4	149.8
45°	3816.8	1397.9	426.8	312.4	248.0	211.0	180.4	154.6	138.5	130.4	130.4
47.5°	4333.7	1517.0	396.2	281.8	225.5	191.6	159.4	133.7	117.6	111.1	111.1
50°	4894.2	1671.6	365.6	249.6	206.1	170.7	136.9	116.0	103.1	98.2	98.2
52.5°	5465.9	1858.5	335.0	223.9	185.2	148.2	117.6	103.1	91.8	88.6	87.0
55°	6216.3	2096.8	302.8	196.5	162.7	127.2	104.7	90.2	77.3	72.5	70.9
57.5°	7371.0	2455.9	267.3	172.3	133.7	106.3	90.2	75.7	61.2	53.1	51.5
60°	8764.1	2894.0	230.3	151.4	107.9	87.0	72.5	58.0	45.1	35.4	33.8
62.5°	10068.5	3172.6	194.9	127.2	85.4	66.0	51.5	43.5	32.2	22.5	20.9
65°	10645.1	3079.2	161.0	103.1	67.6	46.7	33.8	30.6	19.3	9.7	8.1
66°	10453.4	2940.7	148.2	93.4	61.2	40.3	29.0	25.8	14.5	4.8	4.8
67.5°	9888.2	2613.8	128.8	80.5	53.1	32.2	22.5	19.3	8.1	1.6	0.0
70°	8472.6	2114.5	101.5	59.6	38.7	22.5	12.9	9.7	4.8	0.0	0.0
72.5°	6507.8	1575.0	80.5	45.1	27.4	12.9	6.4	3.2	4.8	0.0	0.0
75°	3987.5	900.2	62.8	33.8	17.7	8.1	4.8	0.0	4.8	1.6	0.0
77.5°	1769.9	404.2	41.9	22.5	12.9	6.4	3.2	0.0	3.2	1.6	0.0
80°	447.7	132.1	24.2	16.1	9.7	4.8	1.6	0.0	3.2	3.2	1.6
82.5°	122.4	48.3	17.7	12.9	8.1	4.8	1.6	0.0	3.2	3.2	3.2
85°	48.3	22.5	16.1	12.9	9.7	4.8	1.6	0.0	3.2	3.2	3.2
87.5°	22.5	16.1	16.1	14.5	11.3	4.8	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)