

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: P651913

Luminaire Tested: **GALN-SA5A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15420.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

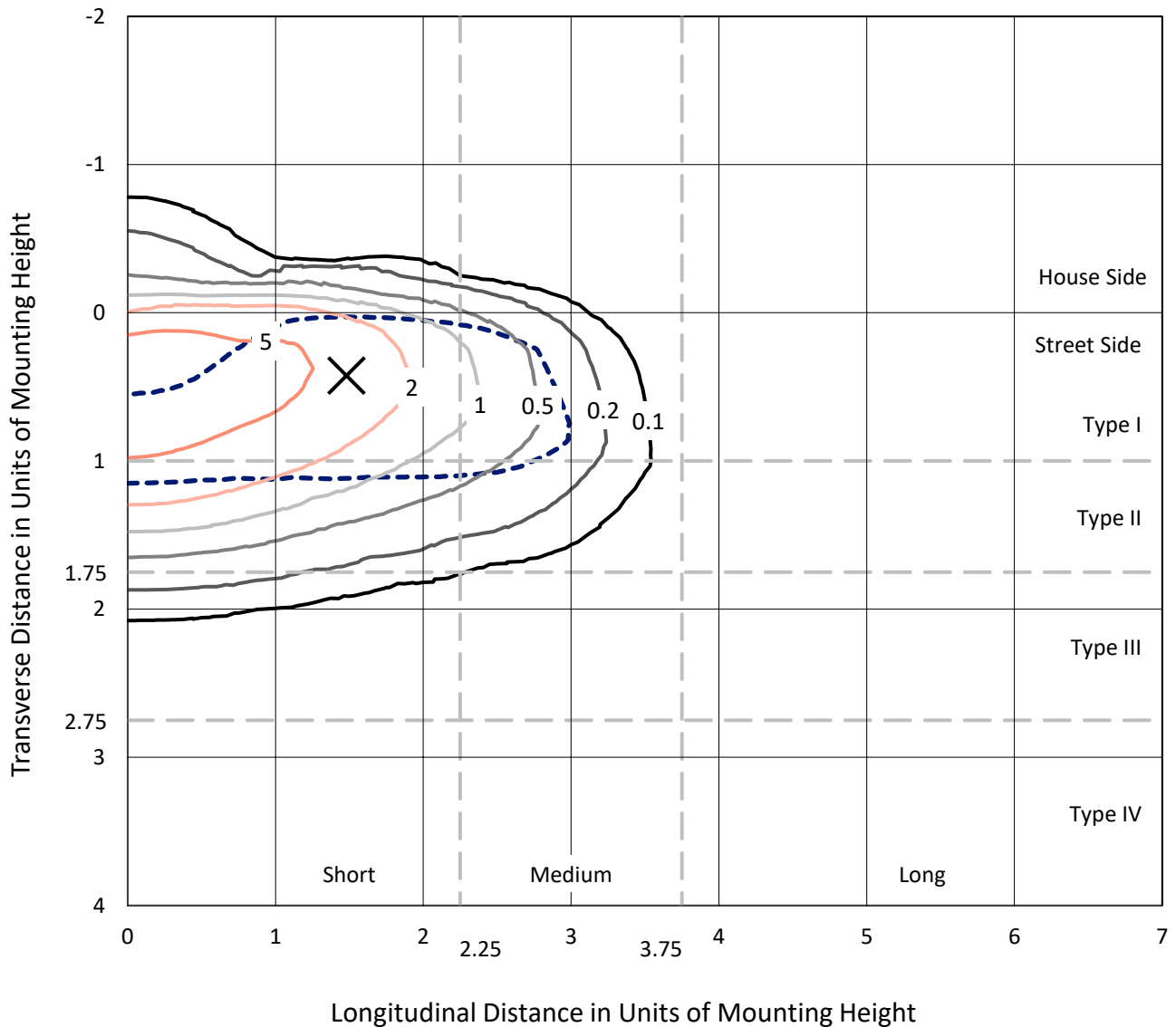
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

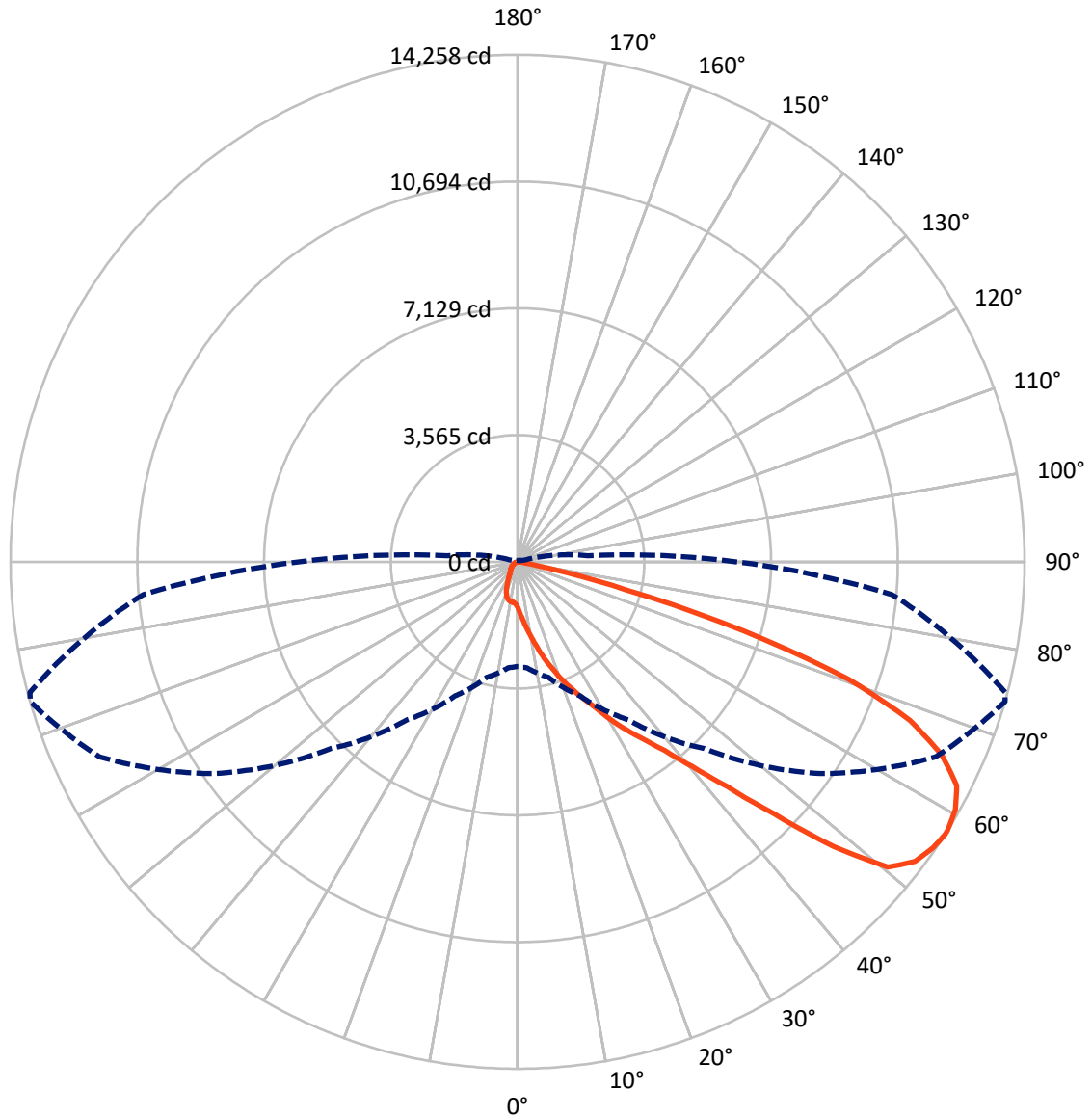
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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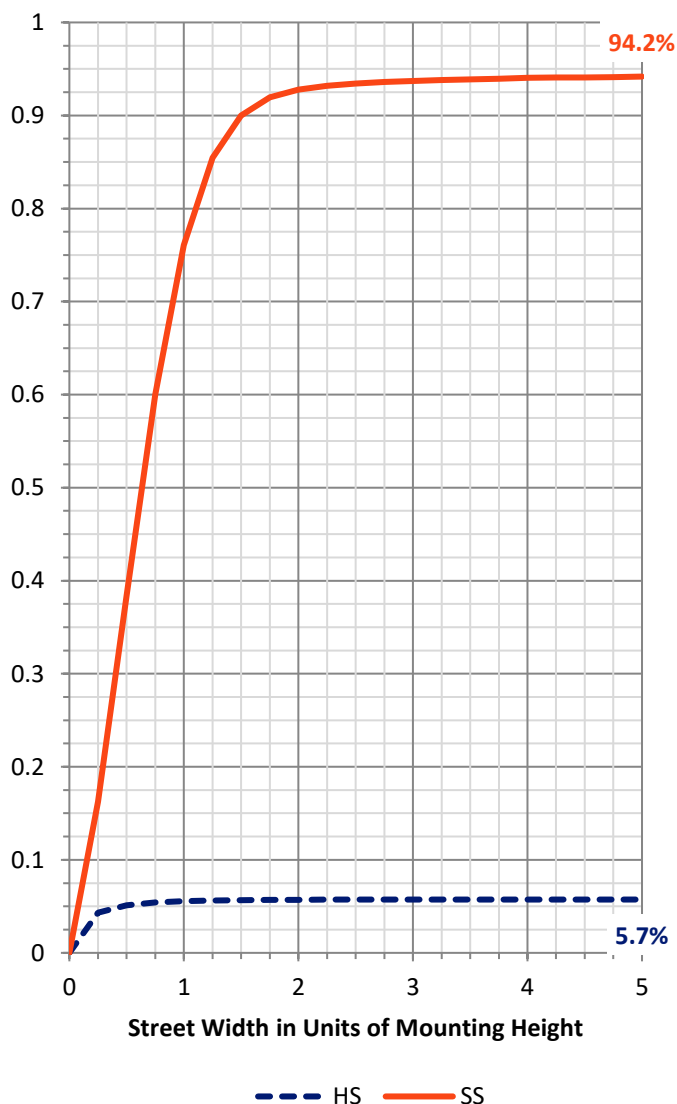
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	889.4	0.0	889.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	14531.2	0.0	14531.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	15420.6	0.0	15420.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	1.0
10°-20°	614.4	4.0
20°-30°	1314.7	8.5
30°-40°	2416.4	15.7
40°-50°	3704.4	24.0
50°-60°	3918.8	25.4
60°-70°	2559.1	16.6
70°-80°	699.2	4.5
80°-90°	37.7	0.2
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°	15420.6	100.0
0°-180°	15420.6	100.0

Coefficient of Utilization



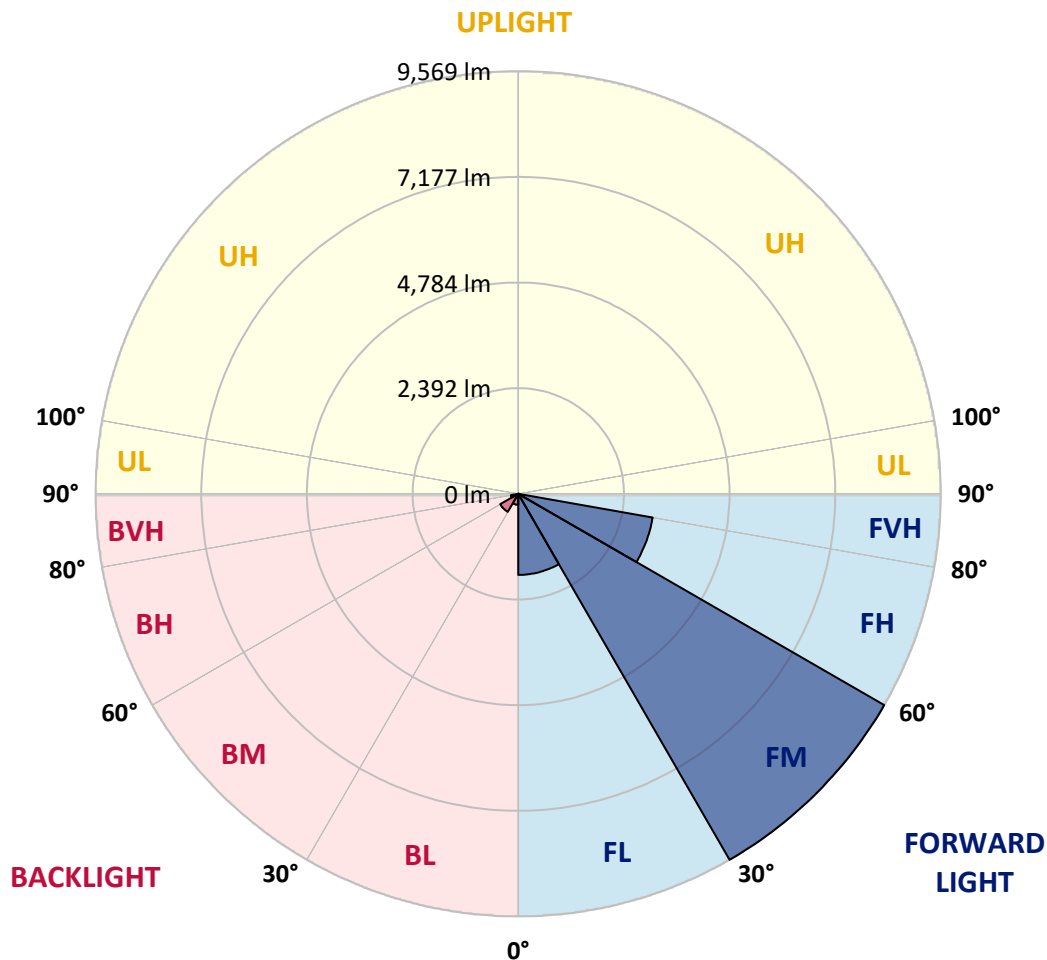
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.6	11.9			
FM (30°-60°)	9568.8	62.1			
FH (60°-80°)	3091.3	20.0			G2/5000
FVH (80°-90°)	34.5	0.2			G1/100
BL (0°-30°)	248.4	1.6	B1/500		
BM (30°-60°)	470.9	3.1	B1/1000		
BH (60°-80°)	167.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1889.8	1872.7	1838.7	1827.0	1776.9	1699.2	1631.1	1539.5	1467.1	1459.6	1372.3
5°	2530.7	2492.4	2476.4	2399.8	2279.4	2166.6	1972.8	1825.9	1656.6	1643.9	1468.2
7.5°	3148.3	3095.0	3079.1	3006.7	2866.1	2688.3	2437.0	2169.8	1901.5	1877.0	1597.0
10°	3595.4	3602.8	3574.1	3526.2	3412.3	3231.3	2921.5	2556.3	2174.1	2143.2	1741.8
12.5°	3915.9	3914.9	3920.2	3919.1	3858.4	3721.0	3395.3	2974.7	2474.3	2413.6	1907.9
15°	4124.6	4127.7	4143.7	4199.1	4205.5	4120.3	3848.8	3375.0	2822.5	2746.9	2087.9
17.5°	4335.4	4357.7	4383.3	4435.4	4482.3	4448.2	4256.6	3792.4	3137.6	3081.2	2280.5
20°	4683.5	4714.4	4699.5	4731.5	4755.9	4759.1	4611.1	4177.8	3519.8	3425.1	2501.0
22.5°	5240.4	5239.3	5200.9	5143.5	5095.5	5093.4	4959.3	4573.9	3866.9	3775.3	2722.4
25°	5944.1	5947.3	5872.8	5708.8	5589.5	5443.7	5289.3	4920.9	4238.5	4125.6	2955.5
27.5°	6751.1	6730.9	6618.0	6392.4	6156.0	5906.8	5684.3	5324.5	4632.4	4538.7	3222.8
30°	7476.2	7468.7	7336.7	7061.0	6750.0	6499.8	6177.2	5830.1	5142.4	5027.4	3521.9
32.5°	8151.1	8161.8	7978.7	7693.4	7393.1	7104.6	6763.9	6313.6	5642.8	5479.9	3847.7
35°	8678.2	8688.8	8499.3	8261.9	7953.2	7713.6	7388.9	6828.8	6136.8	5999.4	4222.5
37.5°	8959.3	8973.1	8863.5	8684.6	8491.8	8371.6	8069.2	7492.1	6737.3	6654.2	4665.4
40°	9012.5	9028.5	8980.5	8932.7	8922.0	9008.2	8919.9	8273.6	7569.8	7440.0	5325.5
42.5°	8852.8	8874.1	8895.3	9001.8	9219.0	9535.3	9843.0	9334.0	8641.9	8467.4	6132.6
45°	8433.3	8431.2	8515.3	8791.1	9277.6	9952.6	10807.5	10661.7	10102.7	9895.1	7272.8
47.5°	7715.8	7705.1	7887.2	8280.0	9038.1	10029.3	11594.4	12273.6	11967.0	11775.3	8498.2
50°	6622.3	6674.4	6960.9	7509.2	8442.9	9797.1	11837.1	13330.9	13496.9	13293.5	9488.4
52.5°	5341.4	5339.3	5788.7	6532.9	7561.3	9286.2	11667.8	13522.4	13994.2	13838.7	9976.0
55°	3953.1	3980.8	4448.2	5198.8	6416.8	8353.5	11115.2	13325.5	14183.6	14074.0	10297.5
57°	2940.6	2989.6	3364.4	4158.7	5420.2	7430.4	10379.5	12973.1	14258.1	14198.5	10564.8
57.5°	2744.8	2746.9	3112.0	3833.9	5128.6	7075.8	10168.7	12826.2	14256.0	14223.0	10608.5
60°	1689.7	1742.9	1995.2	2591.5	3754.1	5522.5	8755.9	11981.9	14145.3	14193.2	10794.7
62.5°	1011.5	1033.8	1197.8	1561.9	2420.0	4030.8	7165.2	10901.2	13856.7	14002.6	10782.0
65°	650.5	655.8	730.4	945.5	1512.9	2724.5	5521.4	9473.5	13110.4	13378.7	10360.4
67.5°	502.5	511.1	540.8	620.7	877.3	1697.1	3905.3	7950.0	11903.1	12249.1	9338.3
70°	446.1	450.4	461.0	486.5	580.3	958.2	2429.6	6210.3	9870.6	9968.5	7308.0
72.5°	364.2	375.8	408.8	417.4	459.9	598.4	1352.2	4168.2	6631.9	6656.3	4088.4
75°	282.2	284.3	333.2	357.8	387.5	412.0	603.7	2101.7	3185.5	3015.2	1575.7
77.5°	210.8	220.4	242.7	273.7	316.2	294.9	270.5	792.1	989.1	971.0	457.8
80°	135.2	140.5	169.3	205.5	245.9	192.7	152.2	232.1	217.2	223.6	109.7
82.5°	68.1	69.2	108.6	167.2	156.5	96.9	95.8	94.8	80.9	79.8	51.1
85°	7.5	16.0	70.3	95.8	70.3	32.0	44.7	43.6	42.6	43.6	29.8
87.5°	1.1	1.1	11.7	13.9	9.6	10.7	12.8	13.9	17.1	16.0	12.8
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°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1329.8	1287.2	1208.4	1132.8	1076.4	1040.1	993.3	976.3	951.8	948.6	936.9
5°	1387.3	1306.3	1169.0	1060.4	973.1	907.1	849.6	801.7	763.4	754.9	759.1
7.5°	1469.2	1349.0	1157.3	1009.3	887.9	775.1	683.5	627.1	586.6	571.7	573.9
10°	1561.9	1405.4	1155.2	955.0	769.8	631.3	531.3	481.2	457.8	449.3	439.7
12.5°	1671.6	1470.3	1149.8	870.9	639.8	503.6	432.3	402.4	380.0	373.7	373.7
15°	1795.0	1539.5	1124.3	766.6	519.6	416.3	368.4	345.0	337.5	331.1	331.1
17.5°	1923.9	1607.7	1071.1	637.7	431.2	356.7	326.9	313.0	302.3	294.9	294.9
20°	2070.8	1674.8	985.9	523.9	364.2	318.3	294.9	279.0	270.5	264.1	261.9
22.5°	2210.2	1729.0	877.3	430.2	317.3	286.4	265.1	248.1	239.5	236.3	236.3
25°	2355.1	1762.1	746.3	355.6	289.6	259.8	236.3	222.5	215.0	212.9	211.8
27.5°	2495.6	1781.2	631.3	310.9	264.1	235.3	212.9	202.3	194.9	192.7	193.8
30°	2666.0	1784.4	519.6	279.0	241.7	211.8	191.7	182.1	177.8	175.7	174.6
32.5°	2838.5	1780.1	436.5	259.8	220.4	191.7	174.6	167.2	164.0	160.8	160.8
35°	3032.2	1757.8	371.6	240.6	200.2	174.6	159.7	153.3	149.0	145.8	144.8
37.5°	3272.8	1746.1	334.3	219.3	182.1	158.6	144.8	138.4	135.2	130.9	129.9
40°	3651.9	1798.2	322.6	200.2	164.0	143.7	130.9	123.5	119.3	115.0	114.0
42.5°	4124.6	1889.8	303.4	181.0	148.0	129.9	117.2	108.6	101.2	95.8	93.7
45°	4736.8	2010.1	273.7	160.8	134.1	115.0	103.3	92.6	83.0	78.8	77.7
47.5°	5378.8	2126.1	247.0	144.8	119.3	102.2	89.4	77.7	69.2	66.0	64.9
50°	5772.7	2149.6	229.9	126.7	104.4	88.4	75.6	64.9	59.6	56.4	56.4
52.5°	5952.6	2112.3	206.5	110.8	90.5	77.7	64.9	56.4	53.2	51.1	50.0
55°	6078.2	2054.8	175.7	95.8	77.7	66.0	57.5	51.1	46.8	44.7	43.6
57°	6151.7	1977.1	152.2	84.1	67.1	57.5	51.1	45.8	41.5	37.3	37.3
57.5°	6154.9	1947.3	145.8	83.0	63.9	55.3	50.0	44.7	39.4	35.2	34.1
60°	6060.2	1742.9	117.2	70.3	51.1	46.8	41.5	35.2	27.7	23.5	22.4
62.5°	5755.6	1483.1	96.9	59.6	41.5	36.2	29.8	26.6	19.2	13.9	13.9
65°	5294.6	1203.1	83.0	47.9	34.1	26.6	20.3	19.2	11.7	6.4	5.3
67.5°	4628.2	936.9	70.3	39.4	28.8	19.2	13.9	12.8	6.4	2.1	0.0
70°	3526.2	638.8	58.5	32.0	21.3	13.9	9.6	7.5	4.3	1.1	0.0
72.5°	2032.4	351.4	48.9	24.5	16.0	10.7	7.5	4.3	4.3	0.0	0.0
75°	726.1	151.2	37.3	18.1	12.8	8.5	5.3	2.1	3.2	1.1	0.0
77.5°	231.0	80.9	24.5	13.9	10.7	6.4	4.3	2.1	2.1	1.1	0.0
80°	68.1	42.6	14.9	11.7	7.5	5.3	3.2	1.1	2.1	1.1	0.0
82.5°	37.3	21.3	11.7	8.5	7.5	4.3	3.2	1.1	1.1	1.1	0.0
85°	19.2	12.8	9.6	8.5	7.5	4.3	3.2	1.1	0.0	1.1	1.1
87.5°	10.7	9.6	9.6	8.5	7.5	5.3	3.2	1.1	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)