

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: P451659

Luminaire Tested: **GALN-SA2C-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451659
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-SA2C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 11319 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

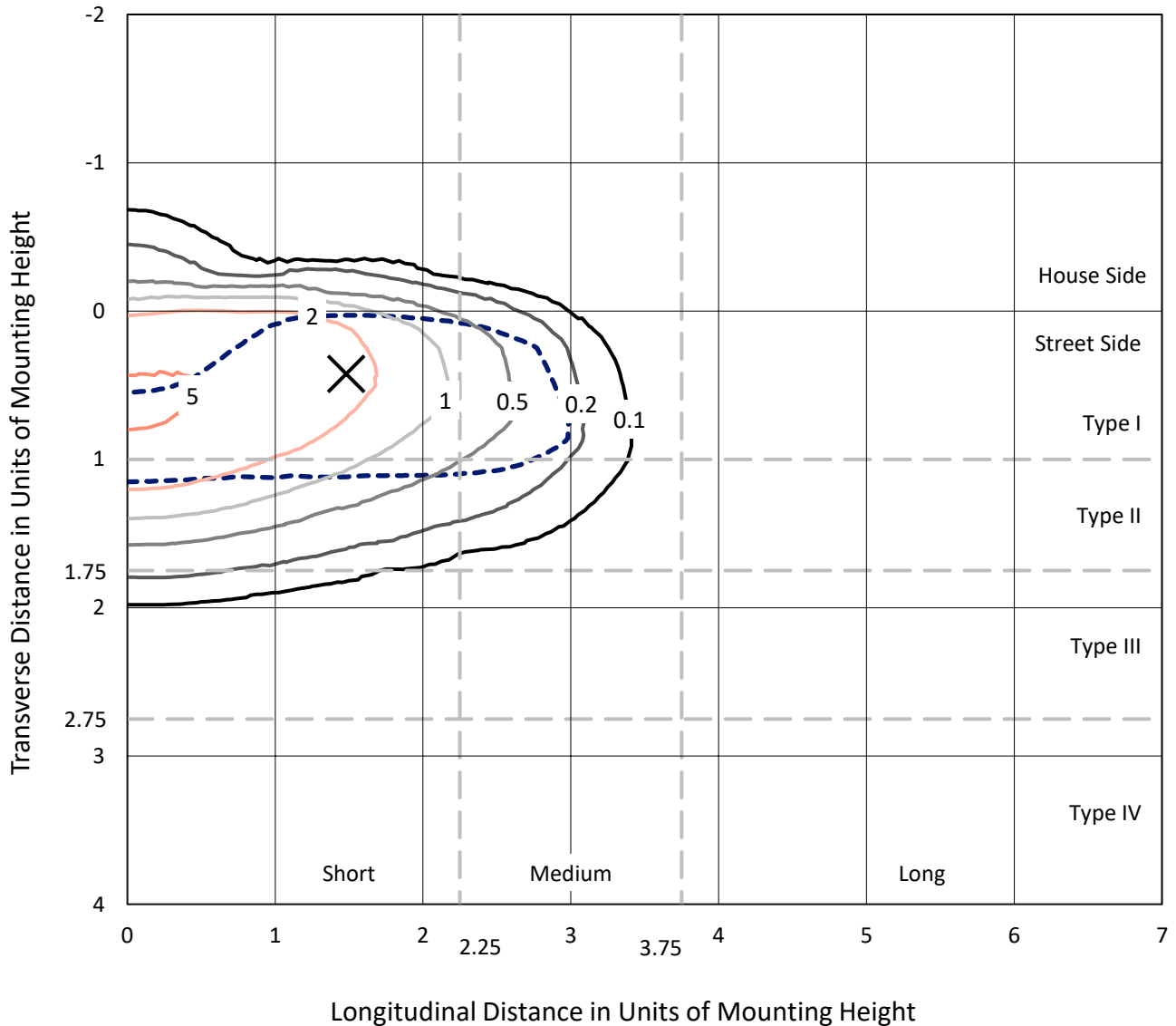
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

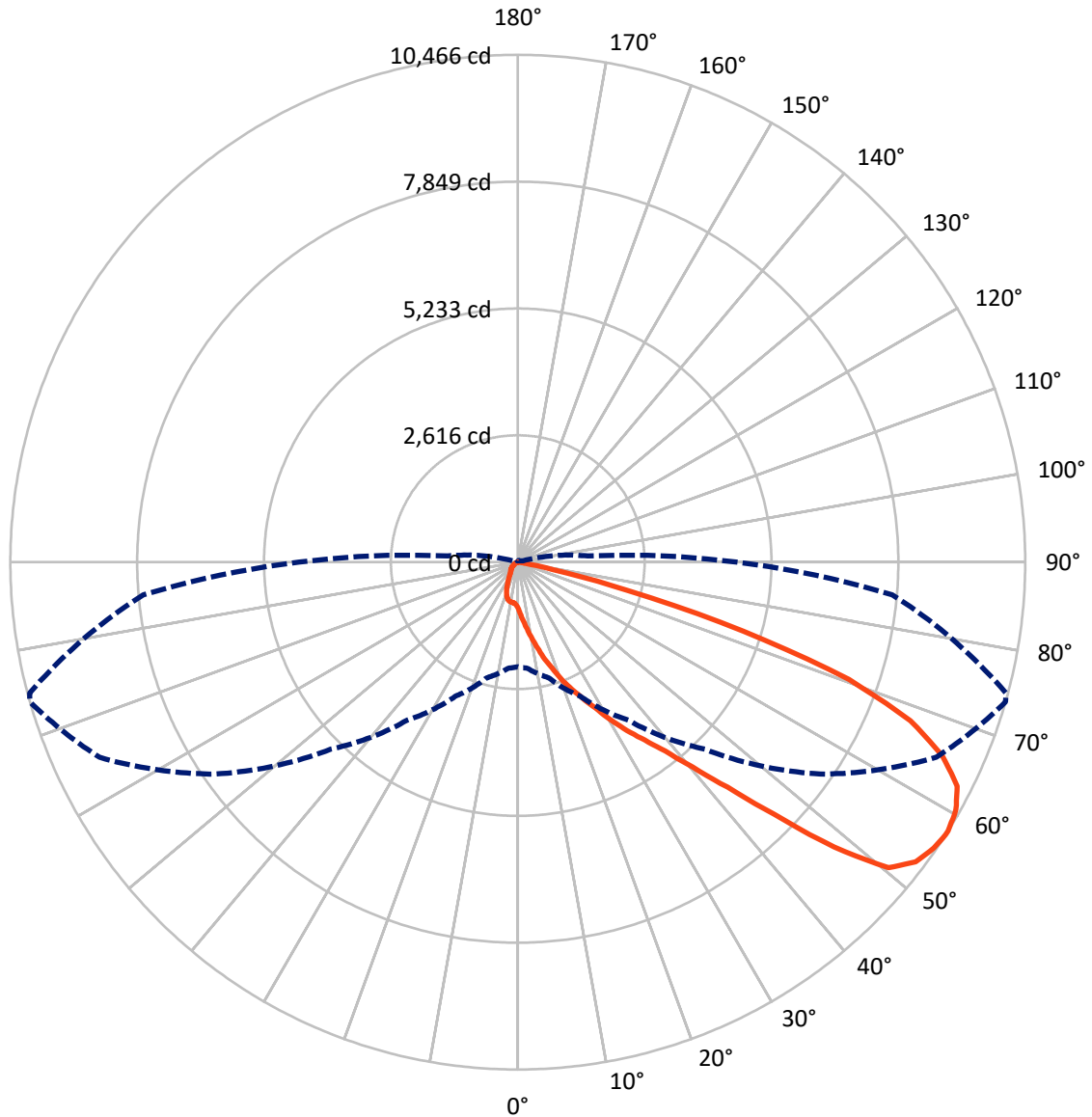
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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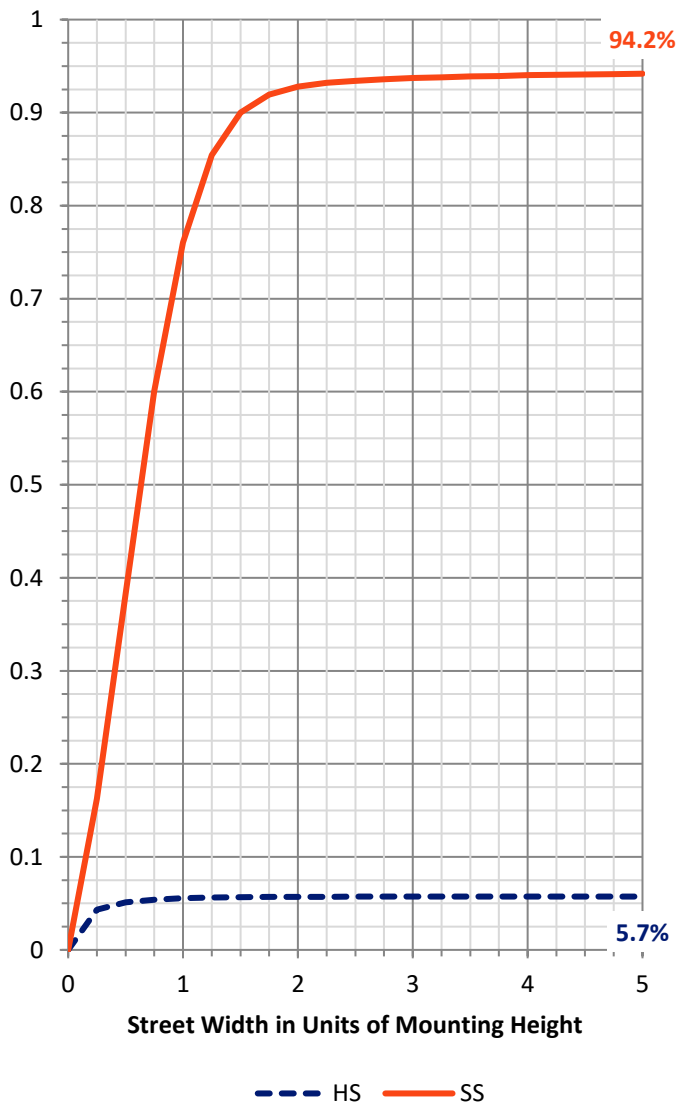
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.9	0.0	652.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10666.2	0.0	10666.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	11319.0	0.0	11319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.0
10°-20°	451.0	4.0
20°-30°	965.0	8.5
30°-40°	1773.7	15.7
40°-50°	2719.1	24.0
50°-60°	2876.5	25.4
60°-70°	1878.4	16.6
70°-80°	513.3	4.5
80°-90°	27.6	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°	11319.0	100.0
0°-180°	11319.0	100.0

Coefficient of Utilization



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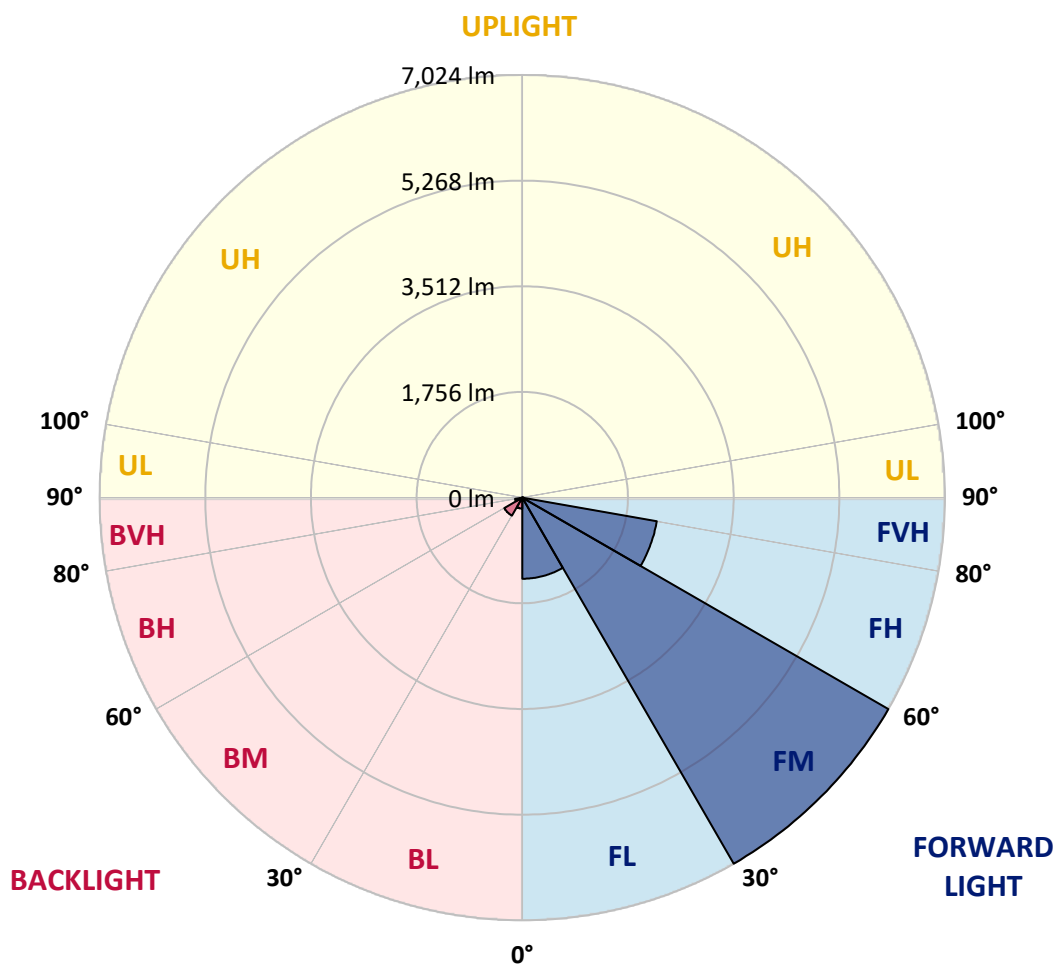
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.1	11.9			
FM	(30°-60°)	7023.7	62.1			
FH	(60°-80°)	2269.1	20.0			G2/5000
FVH	(80°-90°)	25.3	0.2			G1/100
BL	(0°-30°)	182.4	1.6	B1/500		
BM	(30°-60°)	345.6	3.1	B1/1000		
BH	(60°-80°)	122.6	1.1	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
2.5°	1387.2	1374.6	1349.6	1341.0	1304.3	1247.3	1197.2	1130.0	1076.9	1071.4	1007.3
5°	1857.6	1829.5	1817.8	1761.5	1673.2	1590.3	1448.1	1340.3	1216.0	1206.6	1077.7
7.5°	2310.9	2271.8	2260.1	2206.9	2103.8	1973.3	1788.8	1592.7	1395.7	1377.8	1172.2
10°	2639.1	2644.6	2623.5	2588.3	2504.7	2371.8	2144.4	1876.4	1595.8	1573.1	1278.5
12.5°	2874.3	2873.6	2877.5	2876.7	2832.1	2731.3	2492.2	2183.5	1816.2	1771.6	1400.4
15°	3027.5	3029.8	3041.6	3082.2	3086.9	3024.4	2825.1	2477.3	2071.7	2016.3	1532.5
17.5°	3182.2	3198.7	3217.4	3255.7	3290.1	3265.1	3124.4	2783.7	2303.1	2261.6	1674.0
20°	3437.8	3460.5	3449.5	3473.0	3490.9	3493.3	3384.6	3066.6	2583.6	2514.1	1835.7
22.5°	3846.5	3845.7	3817.6	3775.4	3740.2	3738.7	3640.2	3357.3	2838.4	2771.2	1998.3
25°	4363.1	4365.4	4310.7	4190.4	4102.8	3995.8	3882.5	3612.1	3111.1	3028.3	2169.4
27.5°	4955.4	4940.6	4857.8	4692.1	4518.6	4335.7	4172.4	3908.2	3400.3	3331.5	2365.6
30°	5487.6	5482.2	5385.3	5182.9	4954.7	4771.0	4534.2	4279.5	3774.6	3690.2	2585.2
32.5°	5983.1	5990.9	5856.5	5647.1	5426.7	5214.9	4964.8	4634.3	4141.9	4022.3	2824.3
35°	6370.0	6377.8	6238.7	6064.4	5837.8	5661.9	5423.6	5012.5	4504.5	4403.7	3099.4
37.5°	6576.3	6586.4	6505.9	6374.6	6233.2	6144.9	5922.9	5499.4	4945.3	4884.3	3424.5
40°	6615.3	6627.1	6591.9	6556.7	6548.9	6612.2	6547.4	6073.0	5556.4	5461.1	3909.0
42.5°	6498.1	6513.7	6529.4	6607.5	6767.0	6999.1	7224.9	6851.4	6343.4	6215.2	4501.4
45°	6190.2	6188.6	6250.4	6452.8	6809.9	7305.4	7932.9	7825.9	7415.6	7263.2	5338.4
47.5°	5663.5	5655.7	5789.3	6077.7	6634.1	7361.7	8510.5	9009.1	8784.0	8643.3	6237.9
50°	4860.9	4899.2	5109.4	5511.9	6197.2	7191.3	8688.6	9785.1	9907.0	9757.7	6964.7
52.5°	3920.8	3919.2	4249.0	4795.2	5550.2	6816.2	8564.4	9925.7	10271.9	10157.9	7322.6
55°	2901.7	2922.0	3265.1	3816.0	4710.1	6131.6	8158.8	9781.2	10411.1	10330.6	7558.6
57°	2158.5	2194.4	2469.5	3052.5	3978.6	5454.0	7618.8	9522.5	10465.8	10422.0	7754.8
57.5°	2014.7	2016.3	2284.3	2814.2	3764.5	5193.8	7464.0	9414.7	10464.2	10440.0	7786.8
60°	1240.2	1279.3	1464.5	1902.2	2755.5	4053.6	6427.0	8794.9	10382.9	10418.1	7923.6
62.5°	742.4	758.8	879.2	1146.5	1776.3	2958.7	5259.5	8001.7	10171.1	10278.2	7914.2
65°	477.5	481.4	536.1	694.0	1110.5	1999.8	4052.8	6953.7	9623.3	9820.2	7604.7
67.5°	368.9	375.1	397.0	455.6	644.0	1245.7	2866.5	5835.4	8737.1	8991.1	6854.5
70°	327.4	330.6	338.4	357.1	425.9	703.3	1783.4	4558.5	7245.2	7317.1	5364.2
72.5°	267.3	275.9	300.1	306.3	337.6	439.2	992.5	3059.5	4867.9	4885.9	3000.9
75°	207.1	208.7	244.6	262.6	284.5	302.4	443.1	1542.7	2338.2	2213.2	1156.6
77.5°	154.7	161.8	178.2	200.8	232.1	216.5	198.5	581.4	726.0	712.7	336.0
80°	99.2	103.2	124.3	150.8	180.5	141.5	111.8	170.4	159.4	164.1	80.5
82.5°	50.0	50.8	79.7	122.7	114.9	71.1	70.3	69.6	59.4	58.6	37.5
85°	5.5	11.7	51.6	70.3	51.6	23.4	32.8	32.0	31.3	32.0	21.9
87.5°	0.8	0.8	8.6	10.2	7.0	7.8	9.4	10.2	12.5	11.7	9.4
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°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
2.5°	976.1	944.8	887.0	831.5	790.1	763.5	729.1	716.6	698.7	696.3	687.7
5°	1018.3	958.9	858.1	778.4	714.3	665.8	623.6	588.5	560.3	554.1	557.2
7.5°	1078.5	990.2	849.5	740.9	651.8	568.9	501.7	460.3	430.6	419.7	421.2
10°	1146.5	1031.6	847.9	701.0	565.0	463.4	390.0	353.2	336.0	329.8	322.8
12.5°	1226.9	1079.2	844.0	639.3	469.7	369.6	317.3	295.4	279.0	274.3	274.3
15°	1317.6	1130.0	825.3	562.7	381.4	305.6	270.4	253.2	247.7	243.0	243.0
17.5°	1412.2	1180.1	786.2	468.1	316.5	261.8	239.9	229.8	221.9	216.5	216.5
20°	1520.0	1229.3	723.7	384.5	267.3	233.7	216.5	204.8	198.5	193.8	192.2
22.5°	1622.4	1269.1	644.0	315.7	232.9	210.2	194.6	182.1	175.8	173.5	173.5
25°	1728.7	1293.4	547.8	261.0	212.6	190.7	173.5	163.3	157.9	156.3	155.5
27.5°	1831.8	1307.4	463.4	228.2	193.8	172.7	156.3	148.5	143.0	141.5	142.2
30°	1956.9	1309.8	381.4	204.8	177.4	155.5	140.7	133.6	130.5	128.9	128.2
32.5°	2083.5	1306.7	320.4	190.7	161.8	140.7	128.2	122.7	120.3	118.0	118.0
35°	2225.7	1290.2	272.7	176.6	146.9	128.2	117.2	112.5	109.4	107.1	106.3
37.5°	2402.3	1281.6	245.4	161.0	133.6	116.4	106.3	101.6	99.2	96.1	95.3
40°	2680.5	1319.9	236.8	146.9	120.3	105.5	96.1	90.7	87.5	84.4	83.6
42.5°	3027.5	1387.2	222.7	132.9	108.6	95.3	86.0	79.7	74.2	70.3	68.8
45°	3476.9	1475.5	200.8	118.0	98.5	84.4	75.8	68.0	61.0	57.8	57.0
47.5°	3948.1	1560.6	181.3	106.3	87.5	75.0	65.6	57.0	50.8	48.5	47.7
50°	4237.3	1577.8	168.8	93.0	76.6	64.9	55.5	47.7	43.8	41.4	41.4
52.5°	4369.3	1550.5	151.6	81.3	66.4	57.0	47.7	41.4	39.1	37.5	36.7
55°	4461.5	1508.3	128.9	70.3	57.0	48.5	42.2	37.5	34.4	32.8	32.0
57°	4515.5	1451.2	111.8	61.7	49.2	42.2	37.5	33.6	30.5	27.4	27.4
57.5°	4517.8	1429.4	107.1	61.0	46.9	40.6	36.7	32.8	28.9	25.8	25.0
60°	4448.3	1279.3	86.0	51.6	37.5	34.4	30.5	25.8	20.3	17.2	16.4
62.5°	4224.8	1088.6	71.1	43.8	30.5	26.6	21.9	19.5	14.1	10.2	10.2
65°	3886.4	883.1	61.0	35.2	25.0	19.5	14.8	14.1	8.6	4.7	3.9
67.5°	3397.2	687.7	51.6	28.9	21.1	14.1	10.2	9.4	4.7	1.6	0.0
70°	2588.3	468.9	43.0	23.4	15.6	10.2	7.0	5.5	3.1	0.8	0.0
72.5°	1491.9	257.9	35.9	18.0	11.7	7.8	5.5	3.1	3.1	0.0	0.0
75°	533.0	111.0	27.4	13.3	9.4	6.3	3.9	1.6	2.3	0.8	0.0
77.5°	169.6	59.4	18.0	10.2	7.8	4.7	3.1	1.6	1.6	0.8	0.0
80°	50.0	31.3	10.9	8.6	5.5	3.9	2.3	0.8	1.6	0.8	0.0
82.5°	27.4	15.6	8.6	6.3	5.5	3.1	2.3	0.8	0.8	0.8	0.0
85°	14.1	9.4	7.0	6.3	5.5	3.1	2.3	0.8	0.0	0.8	0.8
87.5°	7.8	7.0	7.0	6.3	5.5	3.9	2.3	0.8	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)