

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: P451657

Luminaire Tested: **GALN-SA2C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451657
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-SA2C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 10569 lumens
Efficiency: N/A
Efficacy: 97.9 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 (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

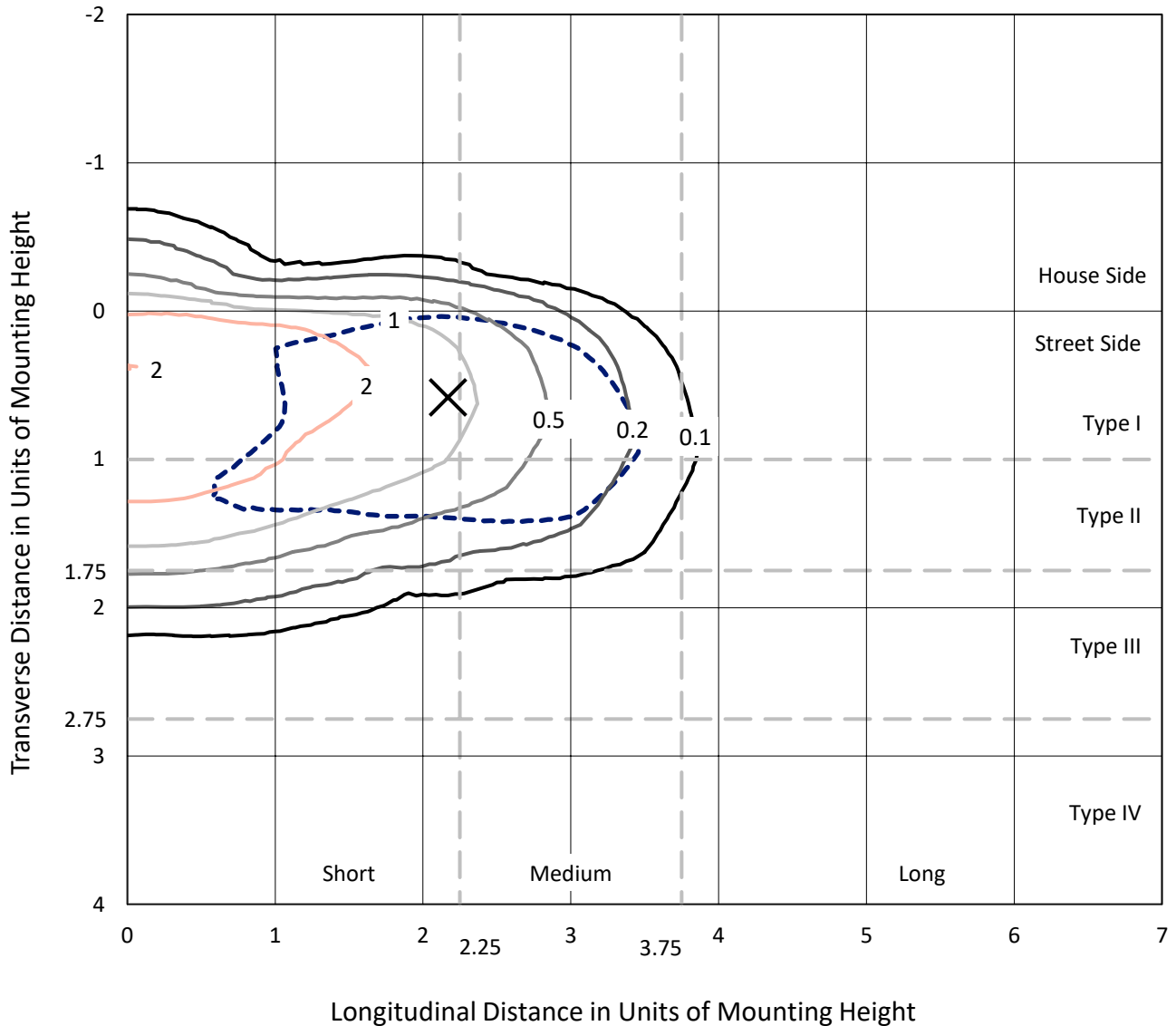




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Iso-Footcandle Lines of Horizontal Illumination

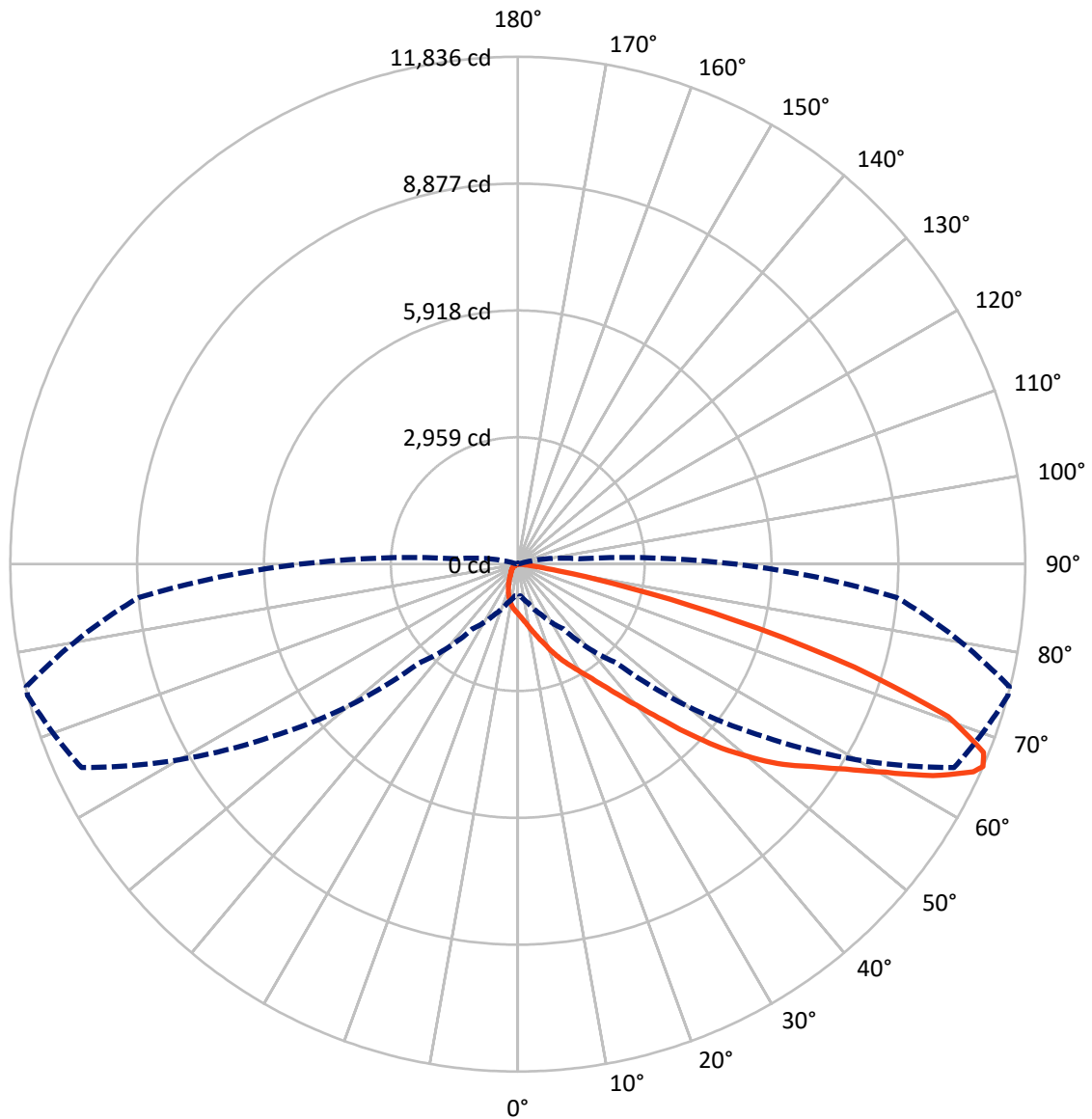
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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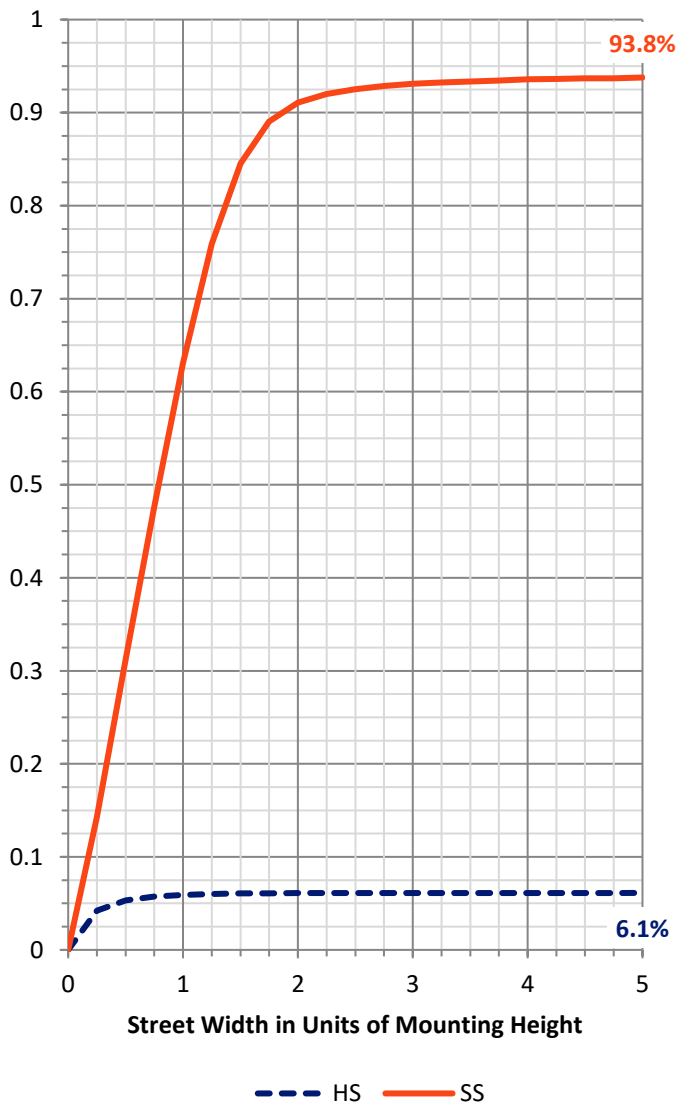
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.5	0.0	652.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9916.5	0.0	9916.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	10569.0	0.0	10569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.1
10°-20°	328.1	3.1
20°-30°	566.5	5.4
30°-40°	1021.9	9.7
40°-50°	1846.1	17.5
50°-60°	2878.2	27.2
60°-70°	2734.1	25.9
70°-80°	1024.7	9.7
80°-90°	57.8	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°	10569.0	100.0
0°-180°	10569.0	100.0

Coefficient of Utilization



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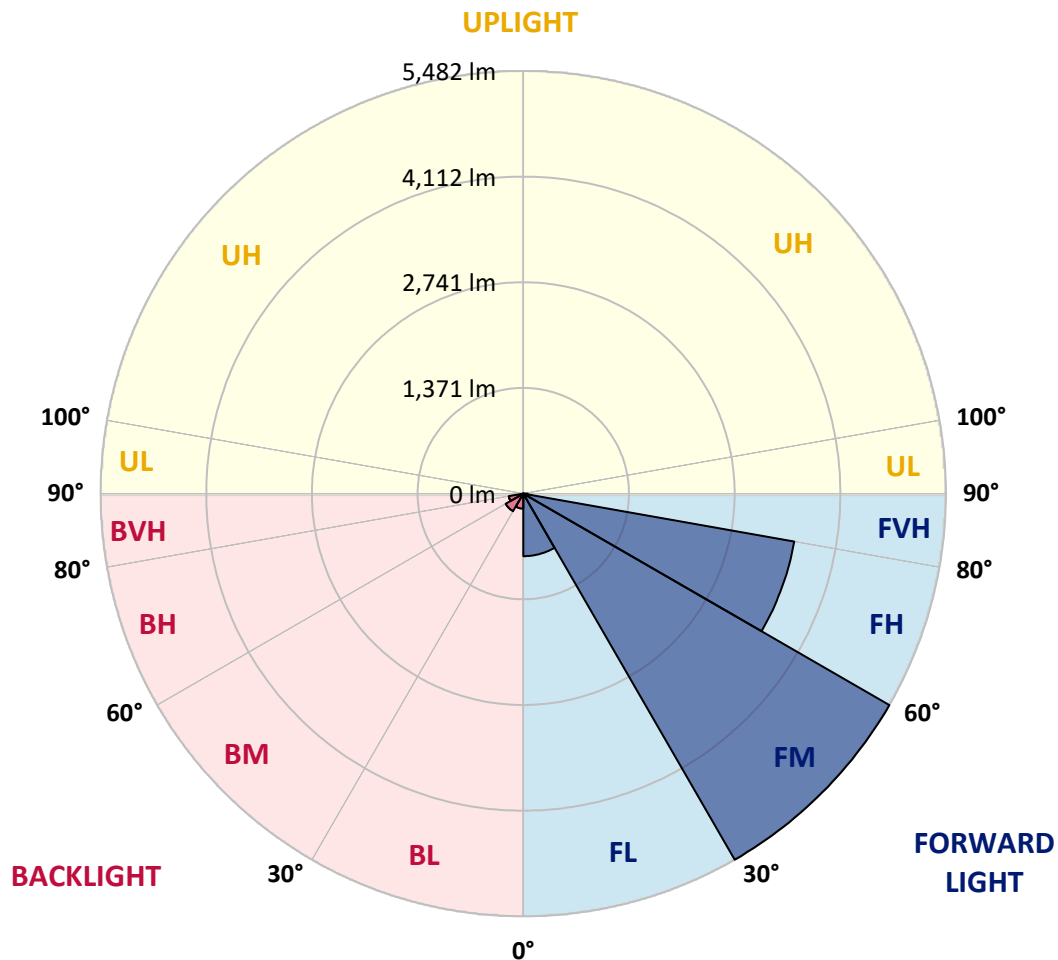
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	811.3	7.7			
FM (30°-60°)	5482.1	51.9			
FH (60°-80°)	3568.3	33.8			G2/5000
FVH (80°-90°)	54.8	0.5			G1/100
BL (0°-30°)	194.9	1.8	B1/500		
BM (30°-60°)	264.1	2.5	B1/1000		
BH (60°-80°)	190.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8
2.5°	1380.9	1363.7	1369.2	1361.4	1343.4	1316.8	1293.4	1259.8	1226.2	1220.7	1183.2
5°	1563.0	1558.3	1552.0	1529.4	1516.9	1476.2	1427.8	1370.0	1300.4	1287.9	1219.9
7.5°	1687.2	1684.9	1688.0	1676.3	1665.4	1628.6	1577.0	1498.1	1390.3	1383.2	1269.9
10°	1727.9	1734.1	1745.9	1764.6	1781.8	1770.1	1731.0	1632.5	1506.7	1486.4	1327.0
12.5°	1704.4	1711.5	1739.6	1789.6	1845.1	1877.1	1861.5	1789.6	1630.2	1613.8	1391.1
15°	1644.3	1652.9	1692.7	1770.1	1869.3	1960.0	1999.1	1947.5	1774.0	1747.4	1468.4
17.5°	1555.2	1567.7	1624.7	1727.1	1863.1	2019.4	2129.6	2112.4	1927.2	1902.1	1552.8
20°	1488.0	1497.3	1545.8	1663.0	1836.5	2052.2	2253.8	2302.3	2116.3	2073.3	1652.1
22.5°	1532.5	1535.6	1552.0	1622.4	1788.8	2060.8	2363.2	2500.0	2317.1	2278.8	1755.2
25°	1750.5	1719.3	1702.9	1687.2	1778.7	2053.0	2462.5	2706.3	2517.2	2476.5	1857.6
27.5°	2094.4	2080.3	1997.5	1886.5	1865.4	2063.1	2528.1	2901.7	2705.5	2661.8	1957.6
30°	2468.7	2444.5	2393.7	2231.2	2067.8	2135.0	2575.8	3091.6	2928.2	2870.4	2049.1
32.5°	2812.6	2828.2	2752.4	2585.2	2396.1	2288.2	2637.5	3298.7	3183.8	3111.9	2155.4
35°	3213.5	3244.7	3128.3	2968.1	2746.9	2564.9	2757.9	3532.3	3508.1	3417.5	2319.5
37.5°	3620.6	3639.4	3568.3	3343.2	3143.9	2916.5	2984.5	3820.7	3907.5	3830.1	2515.6
40°	3962.9	3988.7	3936.4	3736.3	3523.7	3323.7	3313.5	4134.9	4382.6	4302.9	2807.9
42.5°	4224.7	4244.3	4245.8	4104.4	3912.9	3822.3	3733.2	4535.8	4978.1	4885.9	3147.1
45°	4555.3	4583.4	4567.0	4470.9	4327.9	4311.5	4265.4	5020.3	5690.8	5574.4	3587.0
47.5°	5066.4	5085.2	5044.5	4931.2	4785.8	4811.6	4784.3	5563.4	6417.6	6317.6	4042.7
50°	5421.2	5452.5	5510.3	5555.6	5450.1	5354.8	5273.5	6070.6	7107.7	7017.8	4508.4
52.5°	5417.3	5468.9	5651.7	5879.9	6110.5	6081.6	5847.9	6630.9	7766.5	7655.5	4946.1
55°	5052.3	5152.4	5421.2	5826.0	6464.5	6782.6	6676.3	7279.6	8335.4	8260.4	5453.2
57.5°	4299.0	4359.9	4733.5	5299.3	6266.8	7112.3	7635.9	8158.8	9017.6	8982.5	6241.0
60°	2891.5	2918.9	3399.5	4098.9	5335.2	6783.3	8339.3	9222.4	9857.7	9840.5	7160.8
62.5°	1656.8	1668.5	2017.0	2607.1	3796.5	5748.6	8398.7	10534.5	10865.1	10874.4	8225.2
65°	891.7	897.9	1179.3	1530.2	2310.1	4097.4	7552.3	11253.5	11679.4	11697.4	8884.8
66°	769.8	740.1	938.6	1304.3	1838.1	3261.2	7017.0	11227.7	11835.7	11816.1	8861.3
67.5°	585.3	611.9	749.4	1002.7	1362.1	2318.7	5793.2	10728.3	11716.9	11655.9	8501.1
70°	418.9	429.8	533.8	715.1	927.6	1272.3	3701.9	8910.6	10649.4	10567.3	7406.2
72.5°	270.4	282.1	378.2	517.3	670.5	694.7	2072.5	6437.9	8210.3	8198.6	5577.5
75°	193.0	204.0	250.1	370.4	504.1	429.8	998.0	4338.8	5219.6	5184.4	3450.3
77.5°	139.9	145.4	167.2	242.3	360.3	307.9	462.6	2317.1	2598.5	2721.2	1524.7
80°	80.5	85.2	116.4	147.7	243.8	210.2	221.2	930.0	958.9	912.8	476.7
82.5°	39.9	45.3	69.6	100.8	152.4	141.4	101.6	279.8	295.4	287.6	120.3
85°	9.4	11.7	39.1	66.4	74.2	63.3	49.2	82.1	101.6	99.2	46.1
87.5°	0.8	1.6	14.1	11.7	12.5	21.1	17.2	21.1	32.8	30.5	16.4
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°	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8	1155.8
2.5°	1166.0	1151.1	1108.2	1066.0	1030.8	994.1	960.5	940.9	933.1	924.5	928.4
5°	1182.4	1146.4	1059.7	984.7	911.2	848.7	798.7	766.6	751.0	748.7	744.8
7.5°	1204.3	1142.5	1008.1	890.9	794.8	725.2	668.2	622.1	608.0	595.5	585.3
10°	1230.8	1135.5	944.0	792.4	690.1	602.5	527.5	472.8	444.7	436.9	442.3
12.5°	1259.0	1122.2	876.8	701.8	583.8	472.0	402.5	375.1	367.3	364.2	365.0
15°	1287.1	1105.8	806.5	614.3	465.0	376.7	344.6	337.6	334.5	332.9	331.4
17.5°	1312.9	1079.2	727.6	529.1	376.7	322.0	310.3	304.0	297.7	295.4	291.5
20°	1343.4	1048.8	656.5	433.7	318.8	291.5	277.4	265.7	256.3	250.1	249.3
22.5°	1372.3	1009.7	582.2	359.5	290.7	261.8	239.1	226.6	215.7	207.9	210.2
25°	1387.9	962.0	515.8	313.4	264.9	232.1	207.1	191.5	179.7	175.8	175.1
27.5°	1387.9	903.4	450.9	286.8	241.5	205.5	179.7	164.9	157.1	151.6	152.4
30°	1377.0	838.5	390.7	266.5	221.2	182.1	157.9	144.6	138.3	134.4	133.6
32.5°	1368.4	776.8	339.2	247.0	200.1	161.8	140.7	130.5	124.3	120.3	120.3
35°	1381.7	723.7	299.3	227.4	180.5	146.1	127.4	118.0	111.8	108.6	107.8
37.5°	1416.8	675.2	268.8	206.3	162.6	132.9	118.0	107.1	100.8	96.9	95.3
40°	1503.6	647.9	246.2	186.8	145.4	121.9	107.1	96.9	89.1	85.2	84.4
42.5°	1642.7	648.6	224.3	168.8	132.1	112.5	97.7	86.0	77.4	73.5	72.7
45°	1852.1	678.3	207.1	151.6	120.3	102.4	87.5	75.0	67.2	63.3	63.3
47.5°	2103.0	736.2	192.2	136.8	109.4	93.0	77.4	64.9	57.0	53.9	53.9
50°	2374.9	811.2	177.4	121.1	100.0	82.8	66.4	56.3	50.0	47.7	47.7
52.5°	2652.4	901.8	162.6	108.6	89.9	71.9	57.0	50.0	44.5	43.0	42.2
55°	3016.6	1017.5	146.9	95.3	78.9	61.7	50.8	43.8	37.5	35.2	34.4
57.5°	3576.9	1191.8	129.7	83.6	64.9	51.6	43.8	36.7	29.7	25.8	25.0
60°	4252.9	1404.3	111.8	73.5	52.4	42.2	35.2	28.1	21.9	17.2	16.4
62.5°	4885.9	1539.5	94.6	61.7	41.4	32.0	25.0	21.1	15.6	10.9	10.2
65°	5165.7	1494.2	78.1	50.0	32.8	22.7	16.4	14.8	9.4	4.7	3.9
66°	5072.7	1427.0	71.9	45.3	29.7	19.5	14.1	12.5	7.0	2.3	2.3
67.5°	4798.4	1268.4	62.5	39.1	25.8	15.6	10.9	9.4	3.9	0.8	0.0
70°	4111.4	1026.1	49.2	28.9	18.8	10.9	6.3	4.7	2.3	0.0	0.0
72.5°	3158.0	764.3	39.1	21.9	13.3	6.3	3.1	1.6	2.3	0.0	0.0
75°	1935.0	436.9	30.5	16.4	8.6	3.9	2.3	0.0	2.3	0.8	0.0
77.5°	858.9	196.2	20.3	10.9	6.3	3.1	1.6	0.0	1.6	0.8	0.0
80°	217.3	64.1	11.7	7.8	4.7	2.3	0.8	0.0	1.6	1.6	0.8
82.5°	59.4	23.4	8.6	6.3	3.9	2.3	0.8	0.0	1.6	1.6	1.6
85°	23.4	10.9	7.8	6.3	4.7	2.3	0.8	0.0	1.6	1.6	1.6
87.5°	10.9	7.8	7.8	7.0	5.5	2.3	0.8	0.0	1.6	0.8	1.6
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)