

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: P452821

Luminaire Tested: **GALN-SA3D-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16955 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

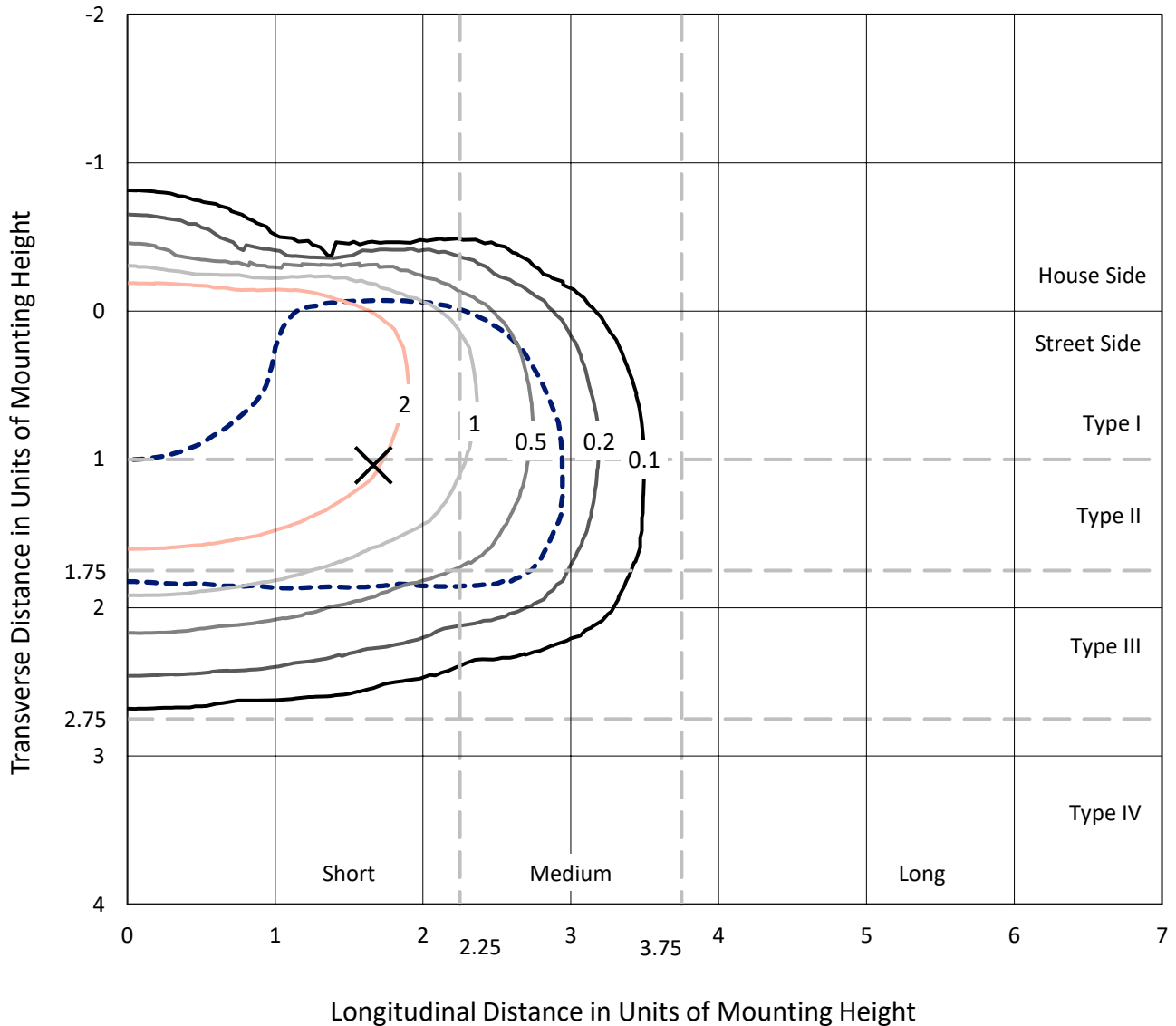
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

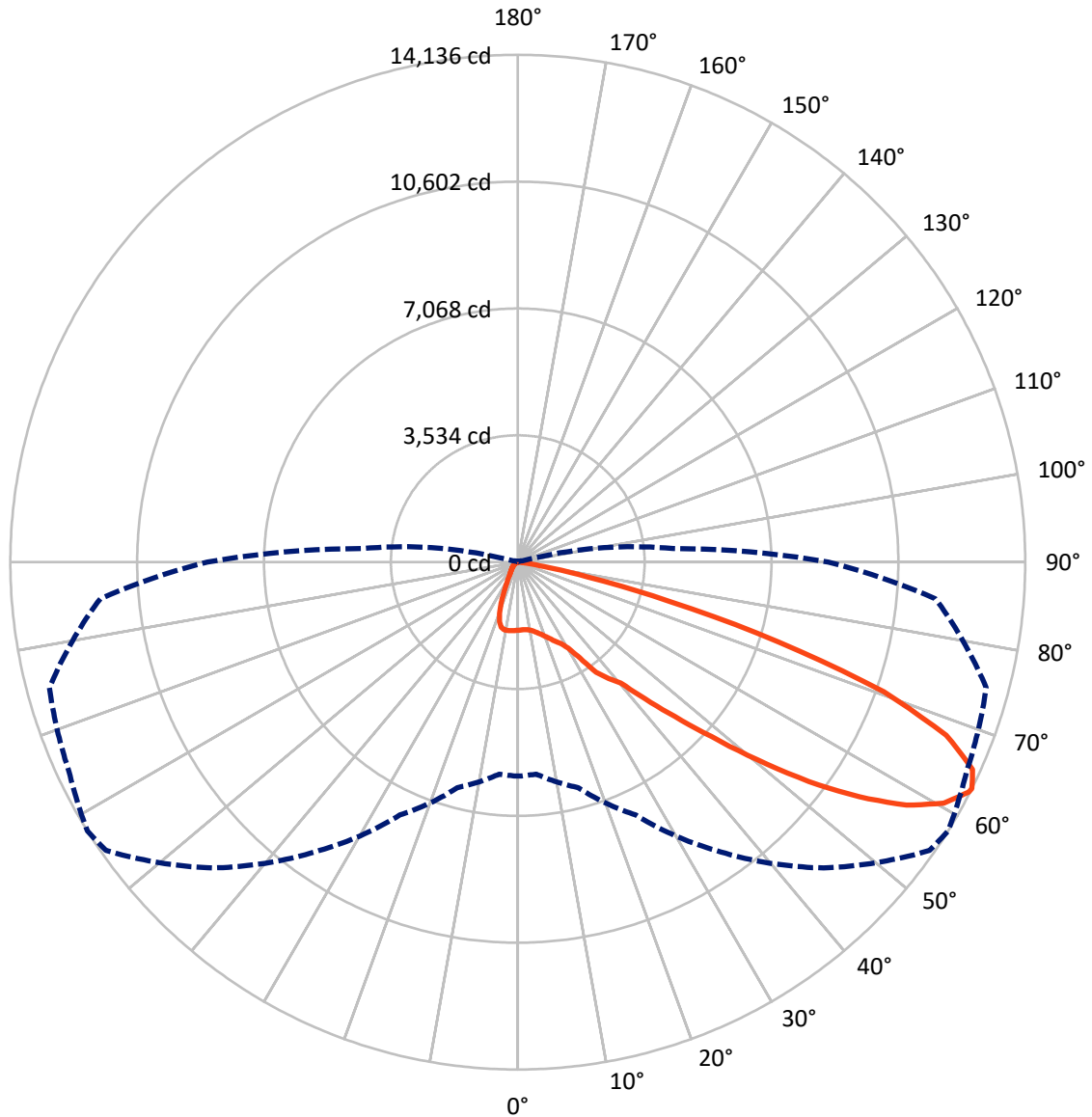
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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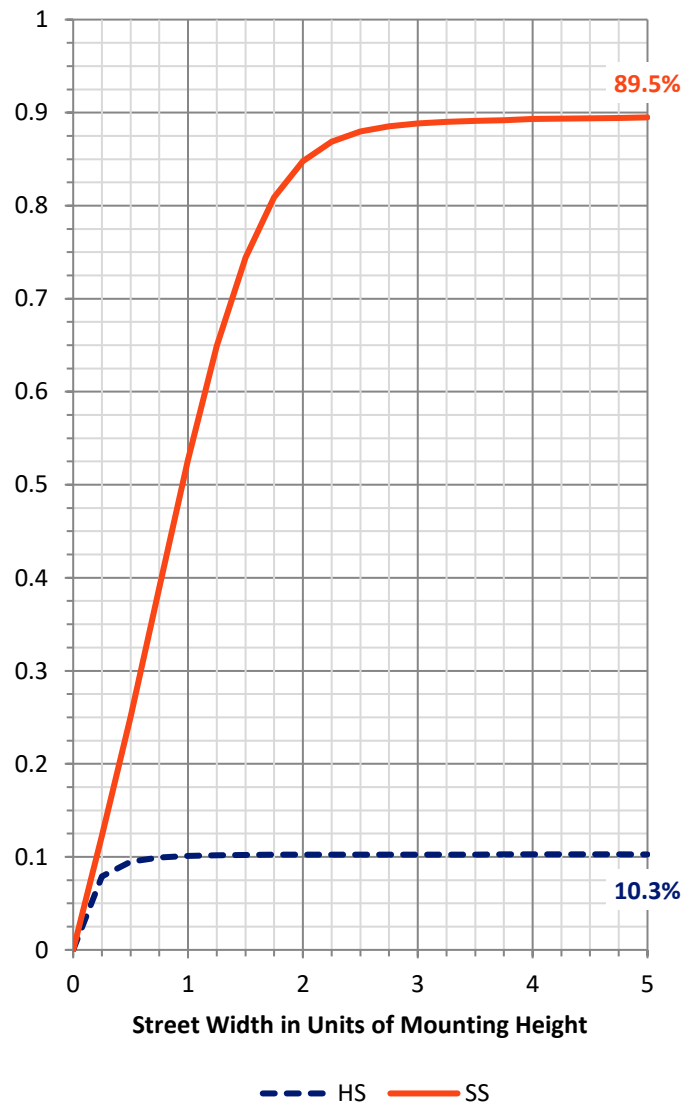
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1755.6	0.0	1755.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15199.4	0.0	15199.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	16955.0	0.0	16955.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	1.0
10°-20°	484.0	2.9
20°-30°	840.0	5.0
30°-40°	1543.5	9.1
40°-50°	2905.7	17.1
50°-60°	4969.9	29.3
60°-70°	4758.7	28.1
70°-80°	1213.5	7.2
80°-90°	62.0	0.4
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°	16955.0	100.0
0°-180°	16955.0	100.0



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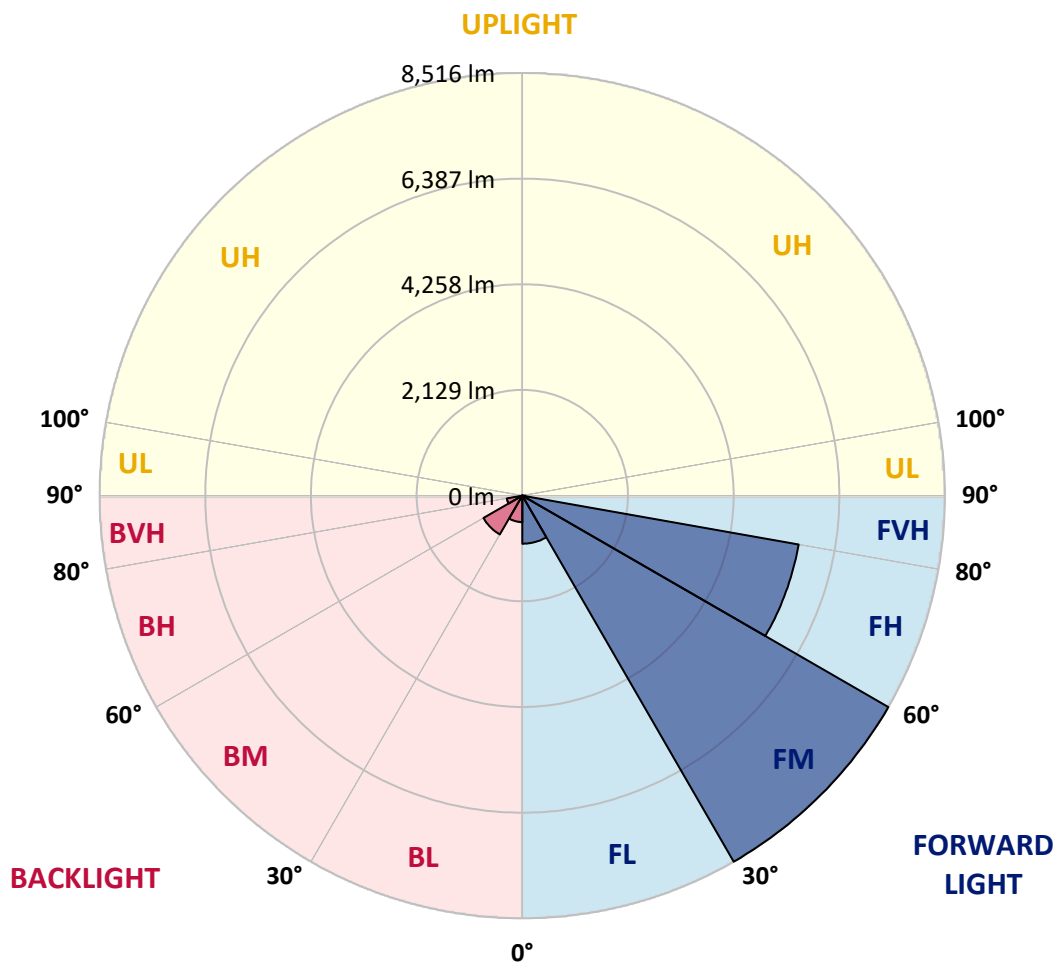
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	969.2	5.7			
FM	(30°-60°)	8516.2	50.2			
FH	(60°-80°)	5654.4	33.3			G3/7500
FVH	(80°-90°)	59.6	0.4			G1/100
BL	(0°-30°)	532.4	3.1	B2/1000		
BM	(30°-60°)	903.0	5.3	B1/1000		
BH	(60°-80°)	317.8	1.9	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1850.9	1857.3	1863.7	1866.3	1875.2	1884.1	1890.5	1889.2	1899.5	1904.6	1904.6
5°	1776.9	1776.9	1793.5	1808.8	1834.4	1859.9	1884.1	1889.2	1908.4	1926.3	1932.6
7.5°	1714.4	1718.2	1731.0	1759.0	1793.5	1838.2	1886.7	1898.2	1931.4	1970.9	1987.5
10°	1685.0	1687.6	1704.1	1733.5	1776.9	1838.2	1905.8	1927.5	1978.6	2041.1	2064.1
12.5°	1678.6	1682.4	1699.0	1732.2	1782.0	1856.1	1948.0	1970.9	2045.0	2125.4	2159.9
15°	1690.1	1692.7	1709.3	1745.0	1799.9	1888.0	2004.1	2036.0	2124.1	2217.3	2262.0
17.5°	1731.0	1728.4	1739.9	1769.2	1830.5	1927.5	2071.8	2110.1	2213.5	2341.1	2370.5
20°	1904.6	1888.0	1877.8	1852.2	1876.5	1983.7	2153.5	2209.6	2337.3	2467.5	2487.9
22.5°	2278.6	2241.6	2168.8	2069.2	1992.6	2060.3	2251.8	2316.9	2481.5	2609.2	2609.2
25°	2754.7	2707.5	2634.7	2417.7	2230.1	2186.7	2362.8	2444.5	2638.6	2767.5	2725.4
27.5°	3350.9	3313.8	3172.1	2919.4	2632.2	2407.5	2491.8	2567.1	2777.7	2933.4	2845.4
30°	3835.9	3818.1	3701.9	3476.0	3159.4	2831.3	2731.7	2781.5	2962.8	3142.8	3052.1
32.5°	4245.7	4245.7	4127.0	3916.3	3620.2	3329.2	3139.0	3174.7	3348.3	3556.4	3387.9
35°	4696.3	4681.0	4585.2	4384.8	4052.9	3796.4	3718.5	3767.0	3924.0	4078.5	3663.6
37.5°	5169.9	5164.8	5065.2	4871.2	4600.6	4277.6	4095.1	4107.8	4188.2	4282.7	3986.6
40°	5684.3	5692.0	5561.8	5441.8	5186.5	4855.9	4506.1	4425.7	4501.0	4767.8	4582.7
42.5°	6291.9	6274.1	6217.9	6054.5	5849.0	5651.1	5231.2	5201.8	5268.2	5554.1	5353.7
45°	6997.9	7023.4	6926.4	6835.7	6697.9	6533.2	6182.2	6131.1	6203.9	6648.1	6363.4
47.5°	7705.0	7680.8	7743.3	7726.7	7800.8	7678.2	7368.0	7263.4	7438.3	7859.5	7440.8
50°	8243.7	8270.5	8400.7	8590.9	8908.8	8977.7	8680.3	8644.6	8722.4	8993.0	8404.6
52.5°	8593.5	8682.9	8887.1	9376.0	9949.2	10394.7	10168.7	10149.6	10117.7	10190.4	9326.2
55°	8822.0	8912.6	9179.4	9899.4	10886.1	11609.9	11621.4	11539.7	11329.1	11276.7	10187.9
57.5°	8681.6	8699.4	9079.9	10042.3	11405.7	12476.7	12852.0	12770.3	12380.9	12183.1	10948.7
60°	7803.3	7840.4	8370.1	9501.1	11179.7	12760.0	13667.6	13630.6	13204.3	12980.9	11541.0
62.5°	6247.3	6354.5	6899.6	8160.8	10129.1	12282.6	13998.3	14102.9	13771.0	13463.4	11727.3
63°	5961.3	5926.9	6502.6	7770.1	9850.9	12046.5	14003.4	14136.1	13796.6	13509.4	11676.3
65°	4412.9	4516.3	4890.3	6127.3	8197.8	10947.4	13688.1	13922.9	13702.1	13306.4	11110.8
67.5°	2477.7	2472.6	2886.2	4009.5	5737.9	8587.1	12377.1	12873.7	12827.7	11940.5	9210.1
70°	1212.7	1231.8	1401.6	2078.2	3327.9	5924.3	10284.9	10821.0	10837.6	9378.6	6368.5
72.5°	548.9	557.8	679.1	1012.3	1710.5	3154.3	7087.2	7599.1	7504.6	5976.6	3516.8
75°	289.8	308.9	374.0	509.3	824.6	1300.8	3855.1	4350.4	4152.5	2730.5	1294.4
77.5°	214.5	220.8	254.0	324.2	441.7	506.8	1663.3	1978.6	1853.5	988.0	428.9
80°	157.0	162.1	188.9	229.8	278.3	257.9	626.8	718.7	644.6	335.7	131.5
82.5°	95.7	97.0	137.9	171.1	174.9	144.2	206.8	222.1	232.3	188.9	71.5
85°	34.5	43.4	93.2	123.8	103.4	72.8	86.8	95.7	104.7	120.0	42.1
87.5°	3.8	5.1	44.7	60.0	29.4	26.8	31.9	35.7	38.3	44.7	20.4
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°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1909.7	1914.8	1910.9	1904.6	1903.3	1899.5	1891.8	1891.8	1891.8	1894.3	1891.8
5°	1937.7	1941.6	1932.6	1919.9	1905.8	1888.0	1868.8	1857.3	1856.1	1853.5	1847.1
7.5°	1991.4	1996.5	1976.0	1945.4	1907.1	1863.7	1822.9	1784.6	1766.7	1752.7	1752.7
10°	2069.2	2074.3	2033.5	1978.6	1902.0	1813.9	1716.9	1628.8	1559.9	1528.0	1520.3
12.5°	2162.4	2165.0	2097.3	2001.6	1875.2	1705.4	1498.6	1305.9	1171.8	1110.6	1104.2
15°	2264.5	2246.7	2157.3	2010.5	1798.6	1482.0	1124.6	888.5	749.3	708.5	723.8
17.5°	2367.9	2334.7	2203.3	1996.5	1626.3	1124.6	755.7	606.3	562.9	551.5	551.5
20°	2465.0	2419.0	2236.5	1935.2	1327.6	774.8	560.4	524.6	517.0	509.3	510.6
22.5°	2562.0	2491.8	2265.8	1798.6	989.3	554.0	501.7	490.2	480.0	469.8	468.5
25°	2656.4	2559.4	2277.3	1545.9	674.0	476.1	458.3	443.0	422.5	411.0	408.5
27.5°	2754.7	2641.1	2269.6	1226.7	491.5	426.4	408.5	386.8	362.5	342.1	342.1
30°	2943.6	2796.8	2242.8	882.1	413.6	375.3	352.3	317.9	291.0	270.6	269.3
32.5°	3201.5	2999.8	2150.9	620.4	367.6	330.6	296.2	257.9	229.8	214.5	214.5
35°	3431.3	3204.1	1978.6	457.0	330.6	287.2	245.1	208.1	186.4	176.2	172.3
37.5°	3781.0	3502.8	1741.2	371.5	294.9	248.9	205.5	171.1	153.2	145.5	145.5
40°	4305.7	3867.8	1450.1	325.5	260.4	211.9	171.1	144.2	130.2	121.3	121.3
42.5°	4956.7	4314.6	1155.2	292.3	228.5	182.5	143.0	122.5	109.8	103.4	102.1
45°	5776.2	4785.7	889.7	261.7	203.0	155.7	121.3	103.4	90.6	86.8	88.1
47.5°	6631.5	5200.5	689.3	234.9	176.2	131.5	103.4	89.4	80.4	75.3	75.3
50°	7361.7	5486.5	523.4	204.2	155.7	111.1	90.6	80.4	72.8	70.2	68.9
52.5°	7971.8	5569.4	400.8	177.4	136.6	95.7	80.4	72.8	66.4	62.5	62.5
55°	8491.4	5496.7	314.0	149.4	114.9	83.0	71.5	65.1	57.4	53.6	52.3
57.5°	8795.2	5263.1	240.0	123.8	93.2	68.9	62.5	54.9	46.0	39.6	39.6
60°	8948.4	4923.5	183.8	102.1	71.5	54.9	51.1	40.8	31.9	26.8	25.5
62.5°	8764.6	4472.9	139.1	80.4	53.6	40.8	34.5	29.4	20.4	15.3	15.3
63°	8650.9	4342.7	134.0	76.6	49.8	38.3	31.9	26.8	17.9	14.0	12.8
65°	7886.3	3774.7	109.8	61.3	39.6	26.8	21.7	19.1	12.8	6.4	5.1
67.5°	6262.6	2887.5	86.8	46.0	28.1	19.1	12.8	11.5	3.8	0.0	0.0
70°	4234.2	1865.0	67.7	33.2	19.1	11.5	6.4	5.1	1.3	0.0	0.0
72.5°	2208.4	956.1	52.3	24.3	11.5	7.7	3.8	1.3	0.0	0.0	0.0
75°	781.2	325.5	38.3	15.3	7.7	3.8	1.3	0.0	0.0	0.0	0.0
77.5°	236.2	121.3	24.3	11.5	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	83.0	44.7	14.0	7.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.8	21.7	8.9	6.4	3.8	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.0	14.0	7.7	6.4	3.8	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	10.2	7.7	6.4	5.1	2.6	1.3	0.0	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)