

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: P453430

Luminaire Tested: **GALN-SA4C-722-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453430
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-SA4C-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA 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: 15010 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

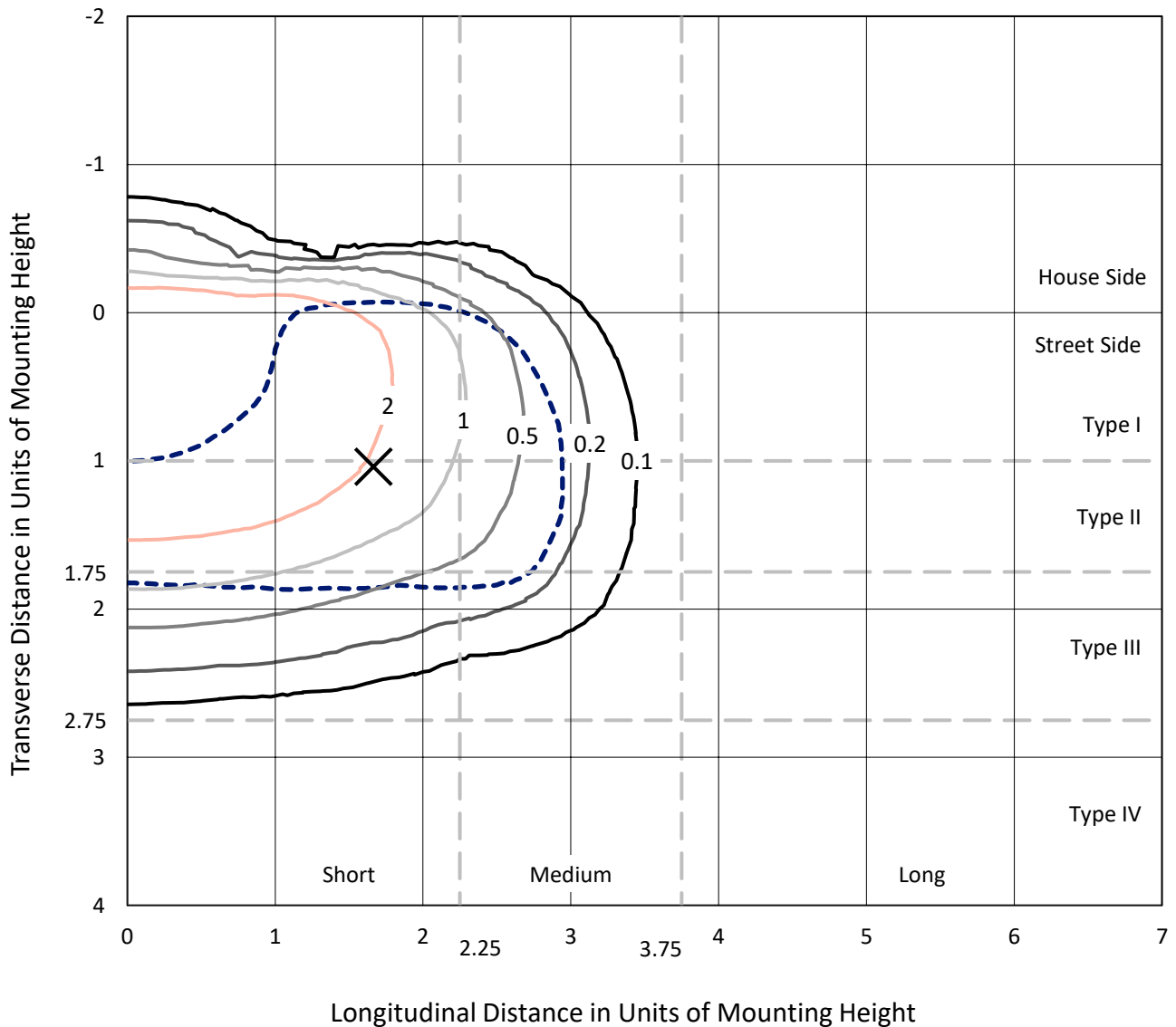
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

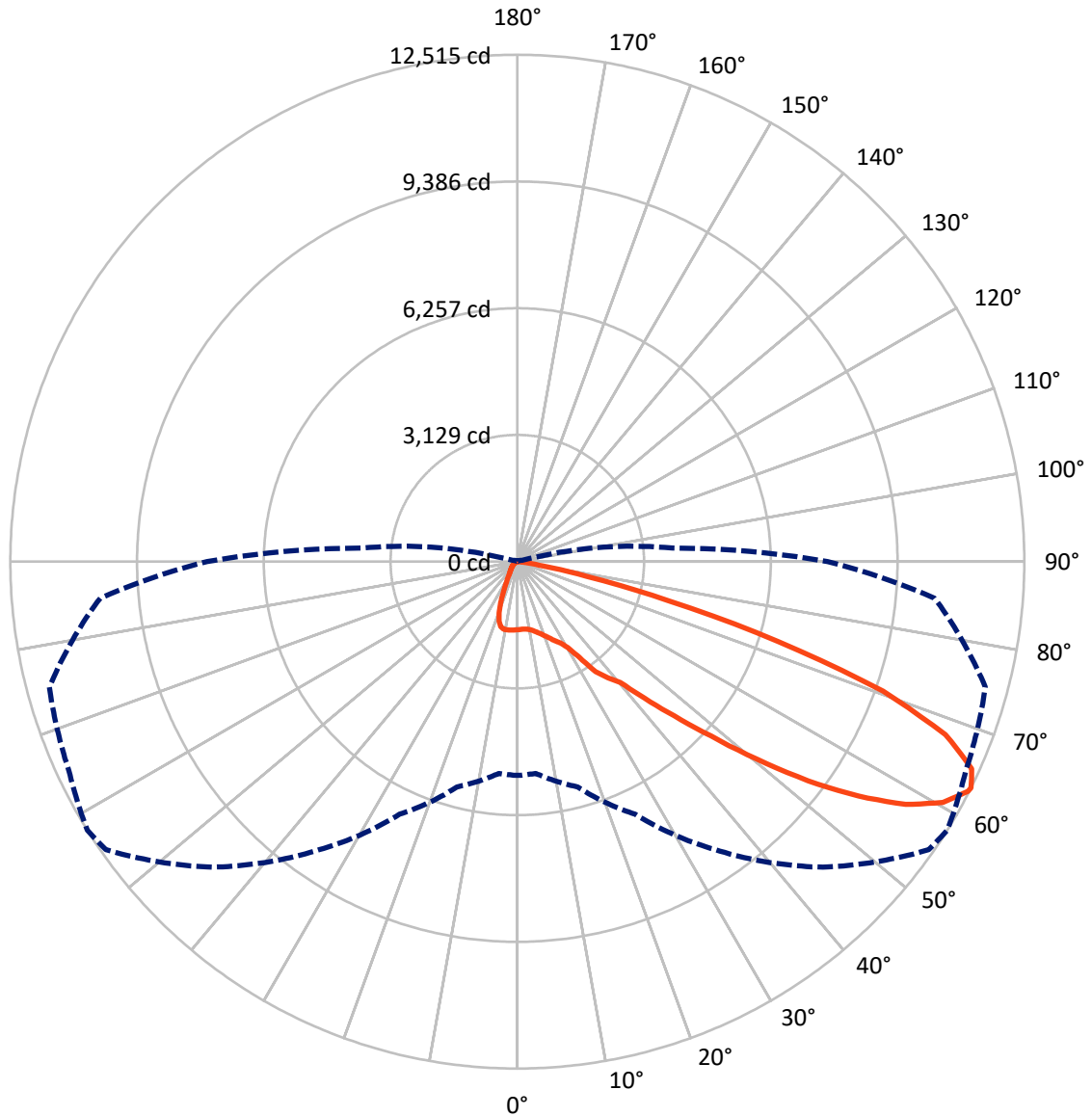
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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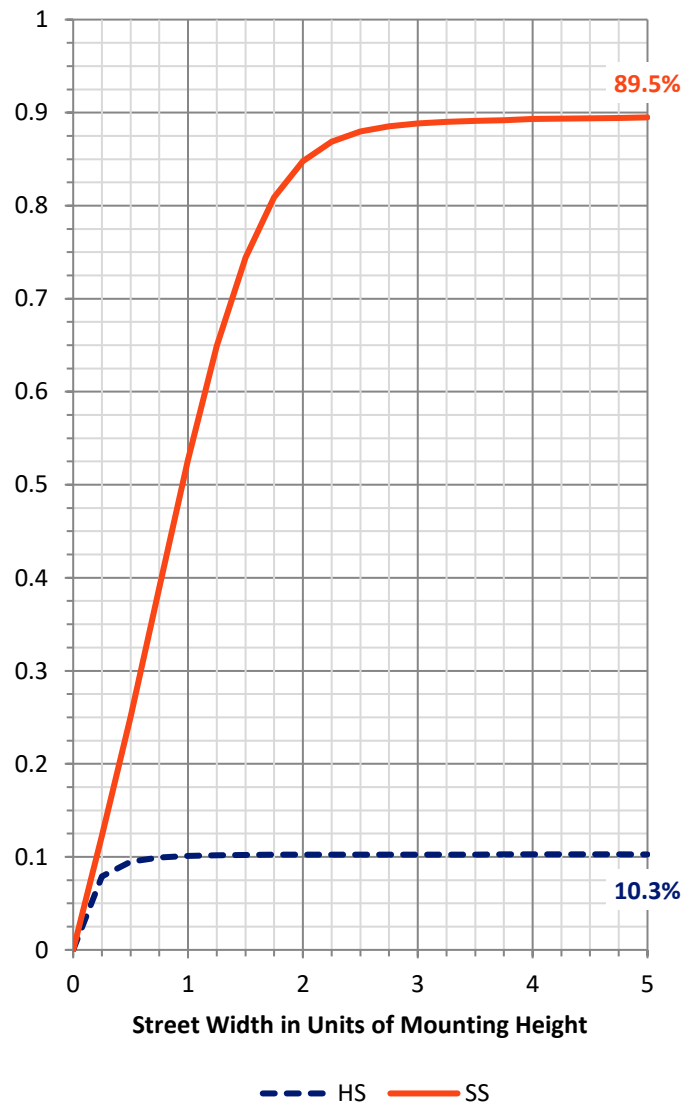
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.2	0.0	1554.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13455.8	0.0	13455.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	15010.0	0.0	15010.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.0
10°-20°	428.5	2.9
20°-30°	743.6	5.0
30°-40°	1366.5	9.1
40°-50°	2572.3	17.1
50°-60°	4399.8	29.3
60°-70°	4212.8	28.1
70°-80°	1074.3	7.2
80°-90°	54.9	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°	15010.0	100.0
0°-180°	15010.0	100.0



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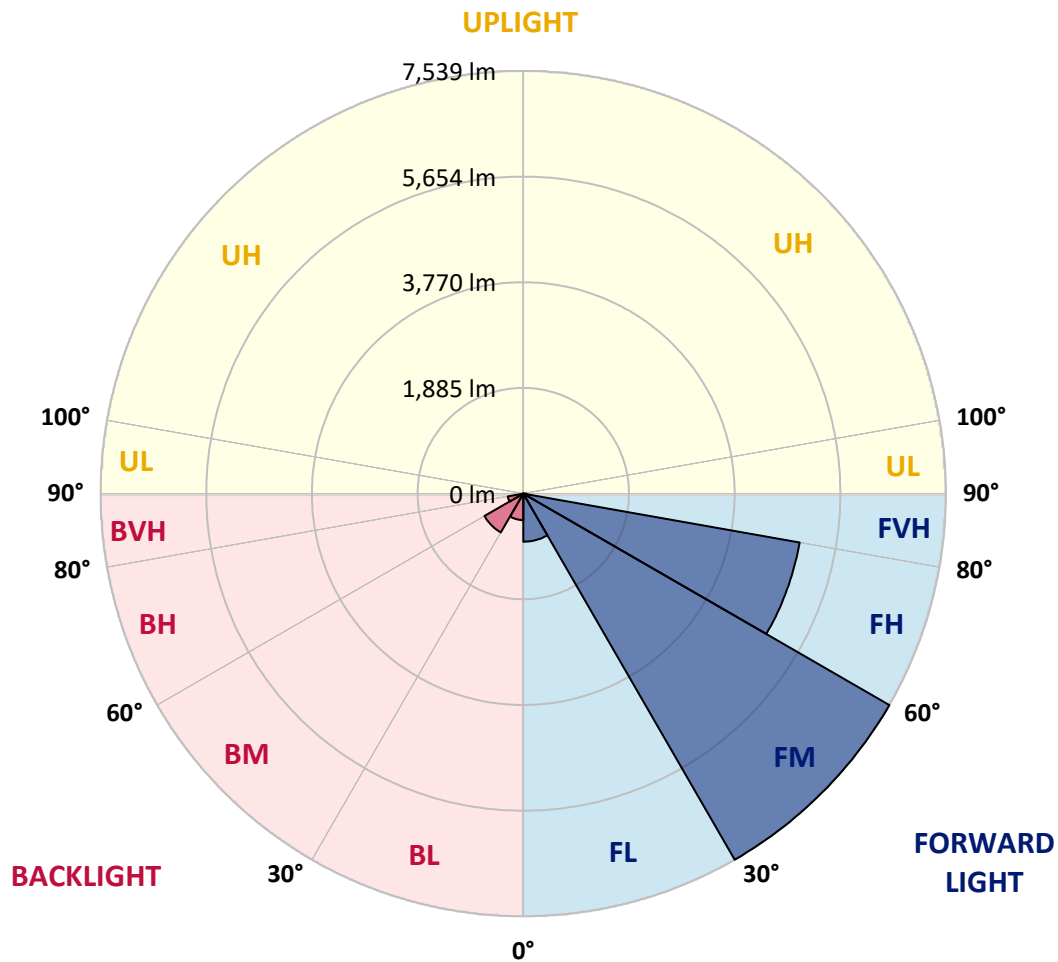
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.0	5.7			
FM (30°-60°)	7539.2	50.2			
FH (60°-80°)	5005.8	33.3			G3/7500
FVH (80°-90°)	52.8	0.4			G1/100
BL (0°-30°)	471.3	3.1	B1/500		
BM (30°-60°)	799.4	5.3	B1/1000		
BH (60°-80°)	281.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4
2.5°	1638.6	1644.3	1649.9	1652.2	1660.1	1668.0	1673.6	1672.5	1681.6	1686.1	1686.1
5°	1573.1	1573.1	1587.8	1601.3	1623.9	1646.5	1668.0	1672.5	1689.5	1705.3	1710.9
7.5°	1517.7	1521.1	1532.4	1557.2	1587.8	1627.3	1670.3	1680.4	1709.8	1744.8	1759.5
10°	1491.7	1494.0	1508.7	1534.6	1573.1	1627.3	1687.2	1706.4	1751.6	1807.0	1827.3
12.5°	1486.1	1489.4	1504.1	1533.5	1577.6	1643.1	1724.5	1744.8	1810.4	1881.6	1912.1
15°	1496.2	1498.5	1513.2	1544.8	1593.4	1671.4	1774.2	1802.5	1880.5	1962.9	2002.5
17.5°	1532.4	1530.1	1540.3	1566.3	1620.5	1706.4	1834.1	1868.0	1959.6	2072.6	2098.6
20°	1686.1	1671.4	1662.3	1639.7	1661.2	1756.1	1906.4	1956.2	2069.2	2184.4	2202.5
22.5°	2017.2	1984.4	1920.0	1831.9	1764.1	1823.9	1993.5	2051.1	2196.9	2309.9	2309.9
25°	2438.7	2396.9	2332.5	2140.4	1974.2	1935.8	2091.8	2164.1	2335.9	2450.0	2412.7
27.5°	2966.5	2933.7	2808.2	2584.5	2330.2	2131.3	2205.9	2272.6	2459.1	2596.9	2518.9
30°	3395.9	3380.1	3277.2	3077.2	2796.9	2506.5	2418.4	2462.4	2622.9	2782.3	2702.0
32.5°	3758.6	3758.6	3653.5	3467.1	3204.9	2947.2	2778.9	2810.5	2964.2	3148.4	2999.2
35°	4157.6	4144.0	4059.2	3881.8	3588.0	3360.9	3291.9	3334.9	3473.9	3610.6	3243.3
37.5°	4576.8	4572.3	4484.2	4312.4	4072.8	3786.9	3625.3	3636.6	3707.8	3791.4	3529.2
40°	5032.2	5039.0	4923.8	4817.5	4591.5	4298.8	3989.2	3918.0	3984.7	4220.8	4057.0
42.5°	5570.2	5554.3	5504.6	5360.0	5178.0	5002.9	4631.1	4605.1	4663.8	4917.0	4739.6
45°	6195.1	6217.7	6131.8	6051.6	5929.5	5783.7	5473.0	5427.8	5492.2	5885.5	5633.4
47.5°	6821.2	6799.7	6855.1	6840.4	6905.9	6797.4	6522.8	6430.1	6585.0	6957.9	6587.2
50°	7298.1	7321.8	7437.1	7605.4	7886.8	7947.8	7684.5	7652.9	7721.8	7961.4	7440.4
52.5°	7607.7	7686.8	7867.6	8300.4	8807.8	9202.2	9002.2	8985.3	8957.0	9021.4	8256.4
55°	7810.0	7890.2	8126.4	8763.8	9637.3	10278.1	10288.2	10215.9	10029.5	9983.1	9019.2
57.5°	7685.7	7701.5	8038.3	8890.3	10097.3	11045.4	11377.6	11305.3	10960.6	10785.5	9692.7
60°	6908.2	6940.9	7409.9	8411.2	9897.2	11296.3	12099.8	12067.0	11689.5	11491.8	10217.0
62.5°	5530.6	5625.5	6108.1	7224.6	8967.2	10873.6	12392.4	12485.1	12191.3	11918.9	10382.0
63°	5277.5	5247.0	5756.6	6878.8	8720.8	10664.6	12397.0	12514.5	12213.9	11959.6	10336.8
65°	3906.7	3998.2	4329.3	5424.4	7257.4	9691.6	12117.8	12325.8	12130.3	11779.9	9836.2
67.5°	2193.5	2189.0	2555.1	3549.6	5079.7	7602.0	10957.2	11396.8	11356.2	10570.8	8153.5
70°	1073.6	1090.5	1240.8	1839.8	2946.1	5244.7	9105.0	9579.7	9594.4	8302.7	5638.0
72.5°	485.9	493.8	601.2	896.2	1514.3	2792.4	6274.2	6727.4	6643.7	5291.0	3113.4
75°	256.5	273.5	331.1	450.9	730.0	1151.6	3412.8	3851.3	3676.1	2417.2	1145.9
77.5°	189.9	195.5	224.9	287.0	391.0	448.6	1472.5	1751.6	1640.9	874.7	379.7
80°	139.0	143.5	167.3	203.4	246.4	228.3	554.9	636.2	570.7	297.2	116.4
82.5°	84.8	85.9	122.0	151.4	154.8	127.7	183.1	196.6	205.7	167.3	63.3
85°	30.5	38.4	82.5	109.6	91.5	64.4	76.8	84.8	92.7	106.2	37.3
87.5°	3.4	4.5	39.6	53.1	26.0	23.7	28.3	31.6	33.9	39.6	18.1
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°	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4	1680.4
2.5°	1690.6	1695.1	1691.7	1686.1	1684.9	1681.6	1674.8	1674.8	1674.8	1677.0	1674.8
5°	1715.5	1718.9	1710.9	1699.6	1687.2	1671.4	1654.4	1644.3	1643.1	1640.9	1635.2
7.5°	1762.9	1767.4	1749.4	1722.2	1688.3	1649.9	1613.8	1579.9	1564.0	1551.6	1551.6
10°	1831.9	1836.4	1800.2	1751.6	1683.8	1605.8	1520.0	1442.0	1381.0	1352.7	1345.9
12.5°	1914.4	1916.6	1856.7	1772.0	1660.1	1509.8	1326.7	1156.1	1037.4	983.2	977.5
15°	2004.8	1988.9	1909.8	1779.9	1592.3	1312.0	995.6	786.5	663.4	627.2	640.8
17.5°	2096.3	2066.9	1950.5	1767.4	1439.7	995.6	669.0	536.8	498.4	488.2	488.2
20°	2182.2	2141.5	1979.9	1713.2	1175.3	686.0	496.1	464.5	457.7	450.9	452.0
22.5°	2268.1	2205.9	2005.9	1592.3	875.8	490.5	444.1	434.0	424.9	415.9	414.7
25°	2351.7	2265.8	2016.1	1368.5	596.7	421.5	405.7	392.1	374.1	363.9	361.6
27.5°	2438.7	2338.1	2009.3	1086.0	435.1	377.4	361.6	342.4	320.9	302.9	302.9
30°	2606.0	2476.0	1985.5	780.9	366.1	332.2	311.9	281.4	257.7	239.6	238.4
32.5°	2834.2	2655.7	1904.2	549.2	325.5	292.7	262.2	228.3	203.4	189.9	189.9
35°	3037.7	2836.5	1751.6	404.6	292.7	254.3	217.0	184.2	165.0	156.0	152.6
37.5°	3347.3	3100.9	1541.4	328.9	261.0	220.4	181.9	151.4	135.6	128.8	128.8
40°	3811.8	3424.1	1283.8	288.2	230.5	187.6	151.4	127.7	115.3	107.4	107.4
42.5°	4388.1	3819.7	1022.7	258.8	202.3	161.6	126.6	108.5	97.2	91.5	90.4
45°	5113.6	4236.7	787.7	231.7	179.7	137.9	107.4	91.5	80.2	76.8	78.0
47.5°	5870.8	4603.9	610.2	207.9	156.0	116.4	91.5	79.1	71.2	66.7	66.7
50°	6517.2	4857.1	463.3	180.8	137.9	98.3	80.2	71.2	64.4	62.2	61.0
52.5°	7057.3	4930.5	354.8	157.1	120.9	84.8	71.2	64.4	58.8	55.4	55.4
55°	7517.3	4866.1	278.0	132.2	101.7	73.5	63.3	57.6	50.9	47.5	46.3
57.5°	7786.2	4659.3	212.5	109.6	82.5	61.0	55.4	48.6	40.7	35.0	35.0
60°	7921.9	4358.7	162.7	90.4	63.3	48.6	45.2	36.2	28.3	23.7	22.6
62.5°	7759.1	3959.8	123.2	71.2	47.5	36.2	30.5	26.0	18.1	13.6	13.6
63°	7658.5	3844.5	118.7	67.8	44.1	33.9	28.3	23.7	15.8	12.4	11.3
65°	6981.6	3341.6	97.2	54.2	35.0	23.7	19.2	17.0	11.3	5.7	4.5
67.5°	5544.2	2556.2	76.8	40.7	24.9	17.0	11.3	10.2	3.4	0.0	0.0
70°	3748.5	1651.0	59.9	29.4	17.0	10.2	5.7	4.5	1.1	0.0	0.0
72.5°	1955.0	846.4	46.3	21.5	10.2	6.8	3.4	1.1	0.0	0.0	0.0
75°	691.6	288.2	33.9	13.6	6.8	3.4	1.1	0.0	0.0	0.0	0.0
77.5°	209.1	107.4	21.5	10.2	4.5	2.3	0.0	0.0	0.0	0.0	0.0
80°	73.5	39.6	12.4	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	36.2	19.2	7.9	5.7	3.4	1.1	0.0	0.0	0.0	0.0	0.0
85°	20.3	12.4	6.8	5.7	3.4	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	9.0	6.8	5.7	4.5	2.3	1.1	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)