

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: P458911

Luminaire Tested: **GALN-SA4B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458911
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-SA4B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15395 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

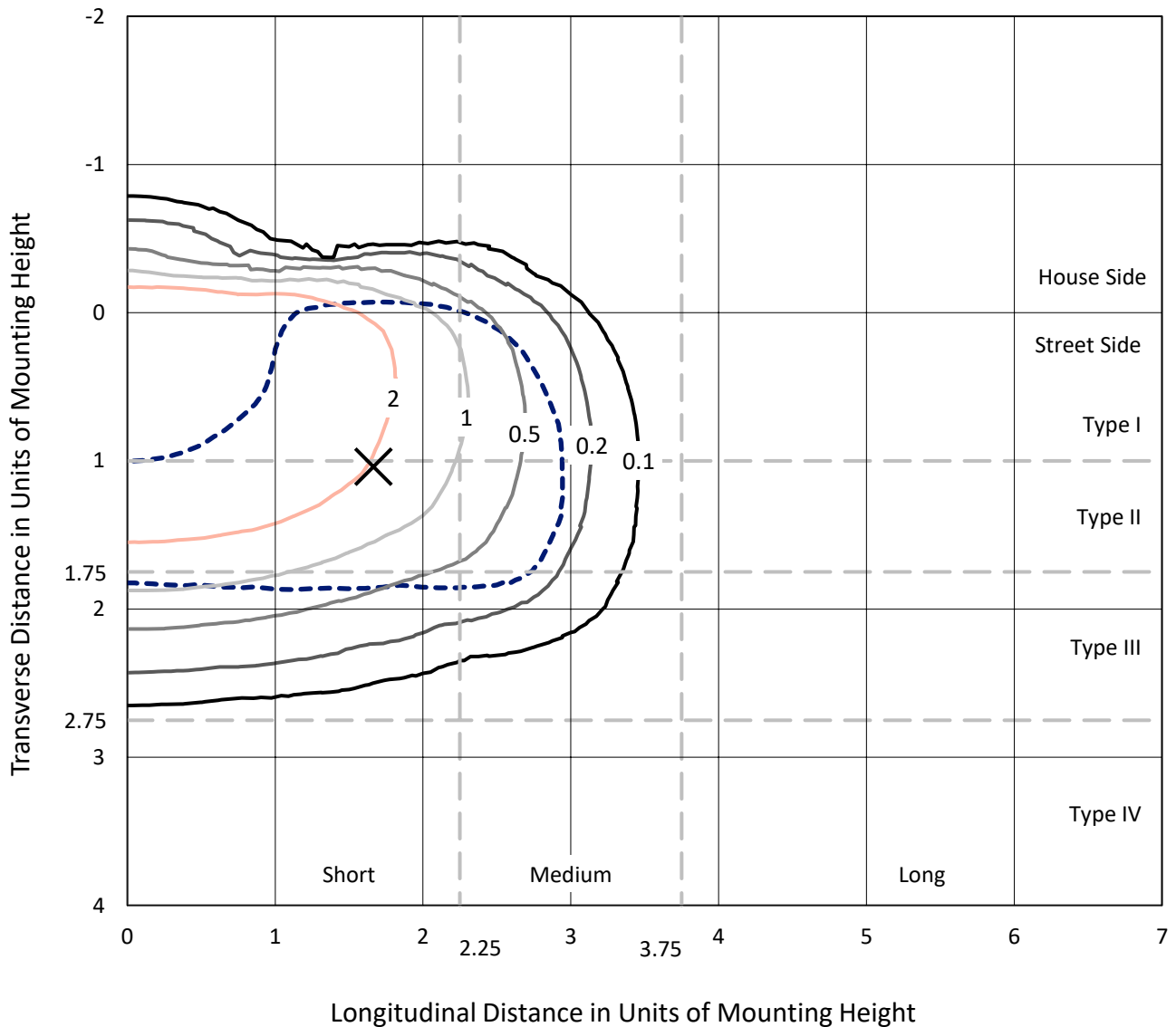
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

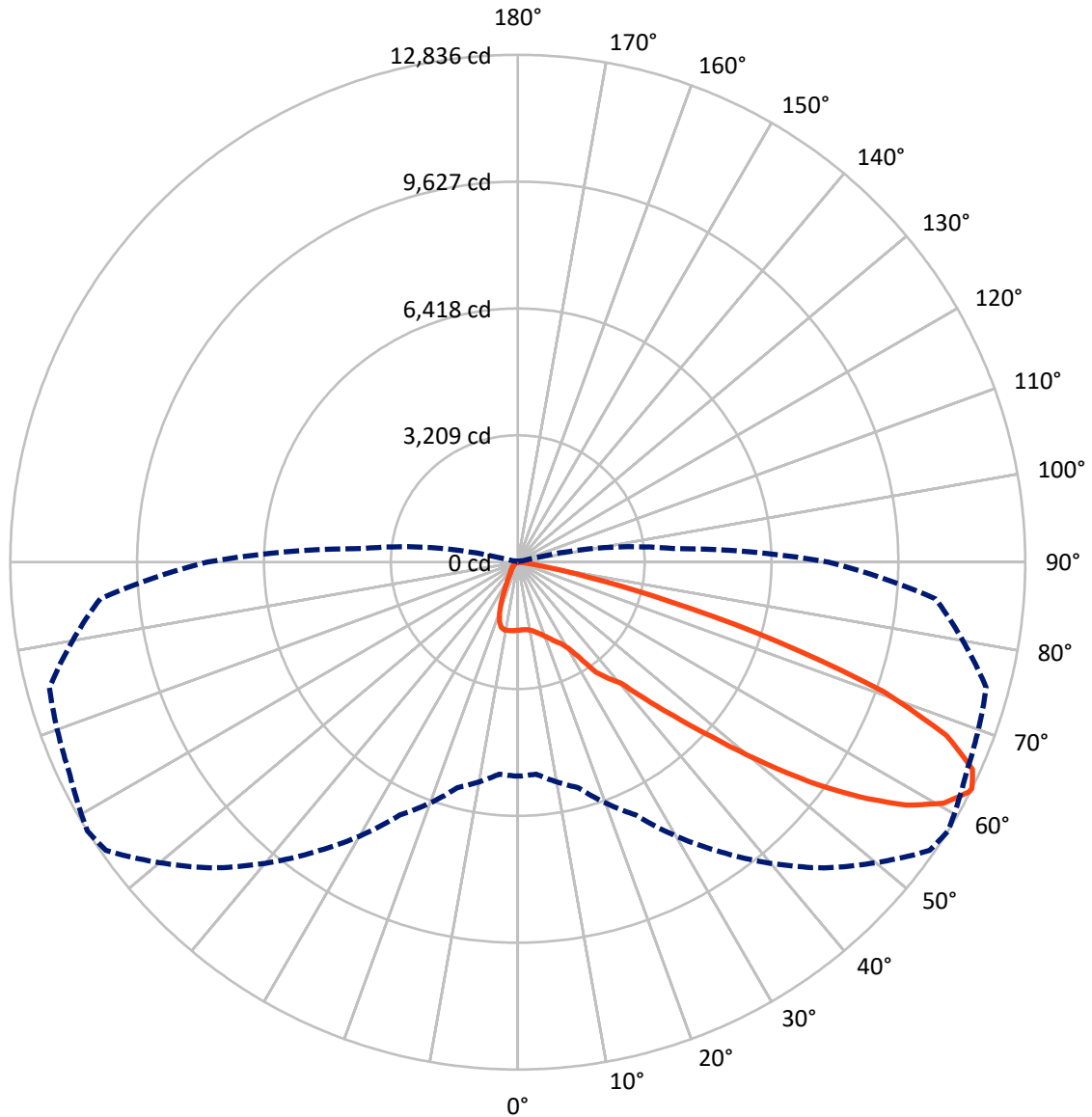
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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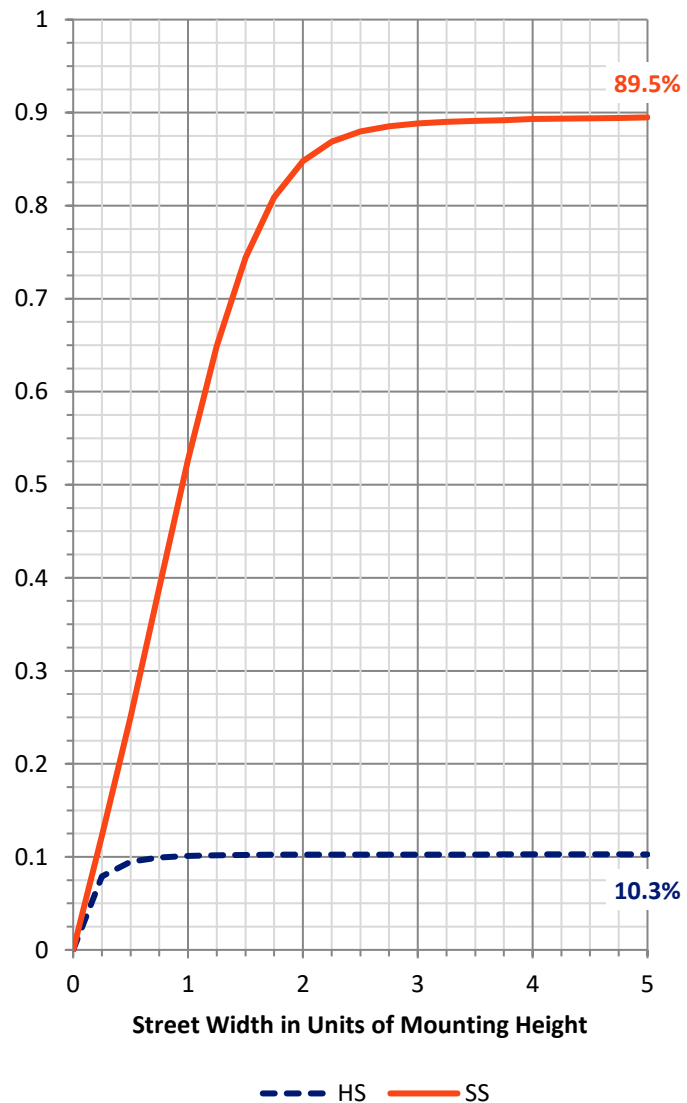
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1594.0	0.0	1594.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13800.9	0.0	13800.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	15395.0	0.0	15395.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.0
10°-20°	439.4	2.9
20°-30°	762.7	5.0
30°-40°	1401.5	9.1
40°-50°	2638.3	17.1
50°-60°	4512.6	29.3
60°-70°	4320.9	28.1
70°-80°	1101.8	7.2
80°-90°	56.3	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°	15395.0	100.0
0°-180°	15395.0	100.0



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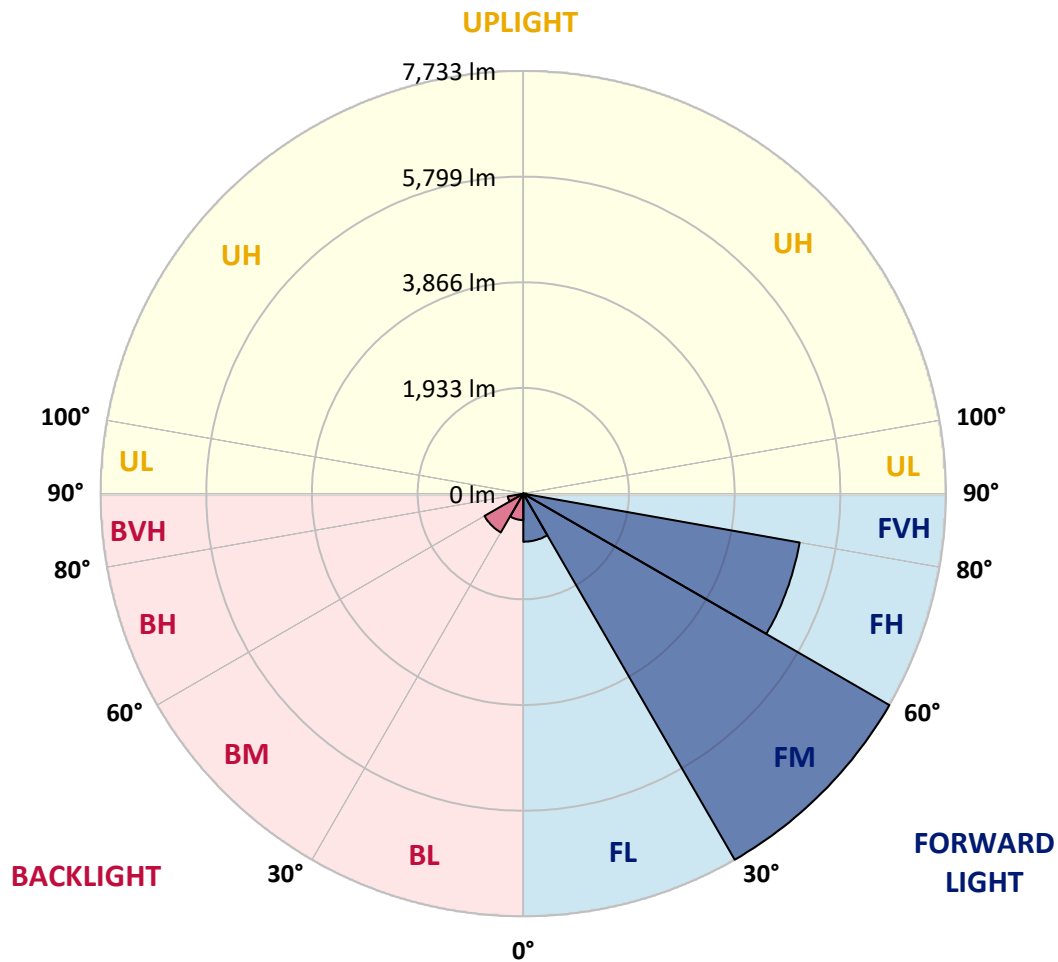
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.0	5.7			
FM (30°-60°)	7732.6	50.2			
FH (60°-80°)	5134.1	33.3			G3/7500
FVH (80°-90°)	54.2	0.4			G1/100
BL (0°-30°)	483.4	3.1	B1/500		
BM (30°-60°)	819.9	5.3	B1/1000		
BH (60°-80°)	288.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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°	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5
2.5°	1680.6	1686.4	1692.2	1694.6	1702.7	1710.8	1716.6	1715.4	1724.7	1729.3	1729.3
5°	1613.4	1613.4	1628.5	1642.4	1665.6	1688.8	1710.8	1715.4	1732.8	1749.0	1754.8
7.5°	1556.6	1560.1	1571.7	1597.2	1628.5	1669.1	1713.1	1723.5	1753.7	1789.6	1804.7
10°	1530.0	1532.3	1547.4	1574.0	1613.4	1669.1	1730.5	1750.2	1796.6	1853.3	1874.2
12.5°	1524.2	1527.6	1542.7	1572.9	1618.1	1685.3	1768.7	1789.6	1856.8	1929.8	1961.1
15°	1534.6	1536.9	1552.0	1584.4	1634.3	1714.3	1819.7	1848.7	1928.7	2013.3	2053.9
17.5°	1571.7	1569.4	1579.8	1606.5	1662.1	1750.2	1881.2	1915.9	2009.8	2125.7	2152.4
20°	1729.3	1714.3	1705.0	1681.8	1703.8	1801.2	1955.3	2006.3	2122.2	2240.5	2259.0
22.5°	2068.9	2035.3	1969.3	1878.8	1809.3	1870.7	2044.6	2103.7	2253.2	2369.1	2369.1
25°	2501.3	2458.4	2392.3	2195.3	2024.9	1985.5	2145.4	2219.6	2395.8	2512.9	2474.6
27.5°	3042.5	3008.9	2880.3	2650.8	2390.0	2186.0	2262.5	2330.9	2522.1	2663.5	2583.6
30°	3483.0	3466.8	3361.3	3156.1	2868.7	2570.8	2480.4	2525.6	2690.2	2853.6	2771.3
32.5°	3855.1	3855.1	3747.3	3556.0	3287.1	3022.8	2850.1	2882.6	3040.2	3229.2	3076.2
35°	4264.2	4250.3	4163.4	3981.4	3680.0	3447.1	3376.4	3420.4	3563.0	3703.2	3326.5
37.5°	4694.2	4689.6	4599.2	4423.0	4177.3	3884.0	3718.3	3729.9	3802.9	3888.7	3619.8
40°	5161.3	5168.3	5050.0	4941.1	4709.3	4409.1	4091.5	4018.5	4086.9	4329.1	4161.0
42.5°	5713.0	5696.8	5645.8	5497.4	5310.8	5131.2	4749.8	4723.2	4783.5	5043.1	4861.1
45°	6354.0	6377.2	6289.1	6206.8	6081.6	5932.1	5613.4	5567.0	5633.1	6036.4	5777.9
47.5°	6996.1	6974.1	7030.9	7015.8	7083.0	6971.8	6690.1	6595.1	6753.9	7136.4	6756.2
50°	7485.2	7509.6	7627.8	7800.5	8089.1	8151.7	7881.6	7849.2	7919.9	8165.6	7631.3
52.5°	7802.8	7884.0	8069.4	8513.3	9033.8	9438.3	9233.1	9215.7	9186.7	9252.8	8468.1
55°	8010.3	8092.6	8334.8	8988.5	9884.5	10541.7	10552.1	10477.9	10286.7	10239.2	9250.5
57.5°	7882.8	7899.0	8244.4	9118.4	10356.2	11328.7	11669.5	11595.3	11241.8	11062.1	9941.3
60°	7085.4	7119.0	7600.0	8626.9	10151.1	11586.0	12410.1	12376.5	11989.4	11786.5	10479.1
62.5°	5672.5	5769.8	6264.7	7409.9	9197.2	11152.5	12710.3	12805.4	12504.0	12224.7	10648.3
63°	5412.8	5381.5	5904.3	7055.2	8944.5	10938.1	12714.9	12835.5	12527.2	12266.4	10602.0
65°	4006.9	4100.8	4440.4	5563.5	7443.5	9940.1	12428.7	12641.9	12441.4	12082.1	10088.5
67.5°	2249.7	2245.1	2620.6	3640.6	5210.0	7797.0	11238.3	11689.2	11647.4	10841.9	8362.7
70°	1101.1	1118.5	1272.7	1887.0	3021.7	5379.2	9338.6	9825.4	9840.5	8515.7	5782.6
72.5°	498.4	506.5	616.6	919.1	1553.1	2864.0	6435.1	6899.9	6814.1	5426.7	3193.2
75°	263.1	280.5	339.6	462.5	748.8	1181.1	3500.4	3950.1	3770.4	2479.2	1175.3
77.5°	194.7	200.5	230.7	294.4	401.0	460.1	1510.3	1796.6	1683.0	897.1	389.4
80°	142.6	147.2	171.5	208.6	252.7	234.1	569.1	652.6	585.3	304.8	119.4
82.5°	86.9	88.1	125.2	155.3	158.8	131.0	187.8	201.7	210.9	171.5	64.9
85°	31.3	39.4	84.6	112.4	93.9	66.1	78.8	86.9	95.0	109.0	38.2
87.5°	3.5	4.6	40.6	54.5	26.7	24.3	29.0	32.5	34.8	40.6	18.5
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°	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5	1723.5
2.5°	1734.0	1738.6	1735.1	1729.3	1728.2	1724.7	1717.7	1717.7	1717.7	1720.1	1717.7
5°	1759.5	1762.9	1754.8	1743.2	1730.5	1714.3	1696.9	1686.4	1685.3	1683.0	1677.2
7.5°	1808.1	1812.8	1794.2	1766.4	1731.6	1692.2	1655.1	1620.4	1604.1	1591.4	1591.4
10°	1878.8	1883.5	1846.4	1796.6	1727.0	1647.0	1558.9	1479.0	1416.4	1387.4	1380.4
12.5°	1963.5	1965.8	1904.3	1817.4	1702.7	1548.5	1360.7	1185.7	1064.0	1008.4	1002.6
15°	2056.2	2040.0	1958.8	1825.5	1633.1	1345.7	1021.1	806.7	680.4	643.3	657.2
17.5°	2150.1	2119.9	2000.5	1812.8	1476.6	1021.1	686.2	550.6	511.1	500.7	500.7
20°	2238.2	2196.4	2030.7	1757.1	1205.4	703.6	508.8	476.4	469.4	462.5	463.6
22.5°	2326.2	2262.5	2057.3	1633.1	898.3	503.0	455.5	445.1	435.8	426.5	425.4
25°	2412.0	2323.9	2067.8	1403.6	612.0	432.3	416.1	402.2	383.7	373.2	370.9
27.5°	2501.3	2398.1	2060.8	1113.9	446.2	387.1	370.9	351.2	329.2	310.6	310.6
30°	2672.8	2539.5	2036.5	800.9	375.5	340.8	319.9	288.6	264.3	245.7	244.6
32.5°	2906.9	2723.8	1953.0	563.3	333.8	300.2	268.9	234.1	208.6	194.7	194.7
35°	3115.6	2909.3	1796.6	414.9	300.2	260.8	222.5	188.9	169.2	160.0	156.5
37.5°	3433.2	3180.5	1581.0	337.3	267.7	226.0	186.6	155.3	139.1	132.1	132.1
40°	3909.5	3512.0	1316.7	295.6	236.4	192.4	155.3	131.0	118.2	110.1	110.1
42.5°	4500.6	3917.6	1049.0	265.4	207.5	165.7	129.8	111.3	99.7	93.9	92.7
45°	5244.8	4345.3	807.9	237.6	184.3	141.4	110.1	93.9	82.3	78.8	80.0
47.5°	6021.3	4722.0	625.9	213.3	160.0	119.4	93.9	81.1	73.0	68.4	68.4
50°	6684.3	4981.7	475.2	185.5	141.4	100.8	82.3	73.0	66.1	63.7	62.6
52.5°	7238.4	5057.0	363.9	161.1	124.0	86.9	73.0	66.1	60.3	56.8	56.8
55°	7710.1	4990.9	285.1	135.6	104.3	75.3	64.9	59.1	52.2	48.7	47.5
57.5°	7986.0	4778.8	217.9	112.4	84.6	62.6	56.8	49.8	41.7	35.9	35.9
60°	8125.0	4470.5	166.9	92.7	64.9	49.8	46.4	37.1	29.0	24.3	23.2
62.5°	7958.1	4061.4	126.3	73.0	48.7	37.1	31.3	26.7	18.5	13.9	13.9
63°	7855.0	3943.1	121.7	69.5	45.2	34.8	29.0	24.3	16.2	12.7	11.6
65°	7160.7	3427.4	99.7	55.6	35.9	24.3	19.7	17.4	11.6	5.8	4.6
67.5°	5686.4	2621.8	78.8	41.7	25.5	17.4	11.6	10.4	3.5	0.0	0.0
70°	3844.6	1693.4	61.4	30.1	17.4	10.4	5.8	4.6	1.2	0.0	0.0
72.5°	2005.2	868.1	47.5	22.0	10.4	7.0	3.5	1.2	0.0	0.0	0.0
75°	709.3	295.6	34.8	13.9	7.0	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	214.4	110.1	22.0	10.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	75.3	40.6	12.7	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.1	19.7	8.1	5.8	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	20.9	12.7	7.0	5.8	3.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	9.3	7.0	5.8	4.6	2.3	1.2	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)