

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: P453952

Luminaire Tested: **GALN-SA5A-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453952
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-SA5A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 15313 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

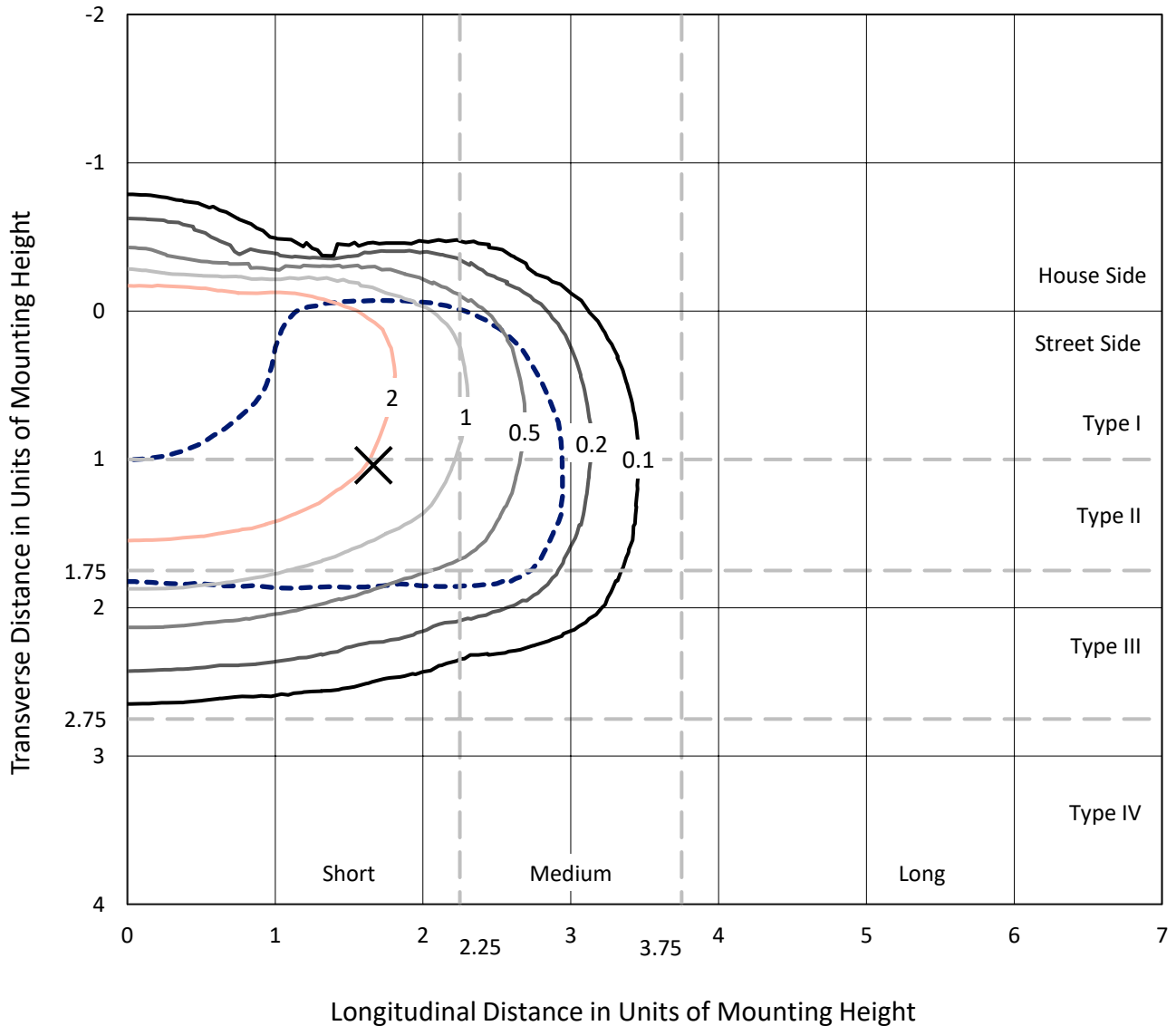
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

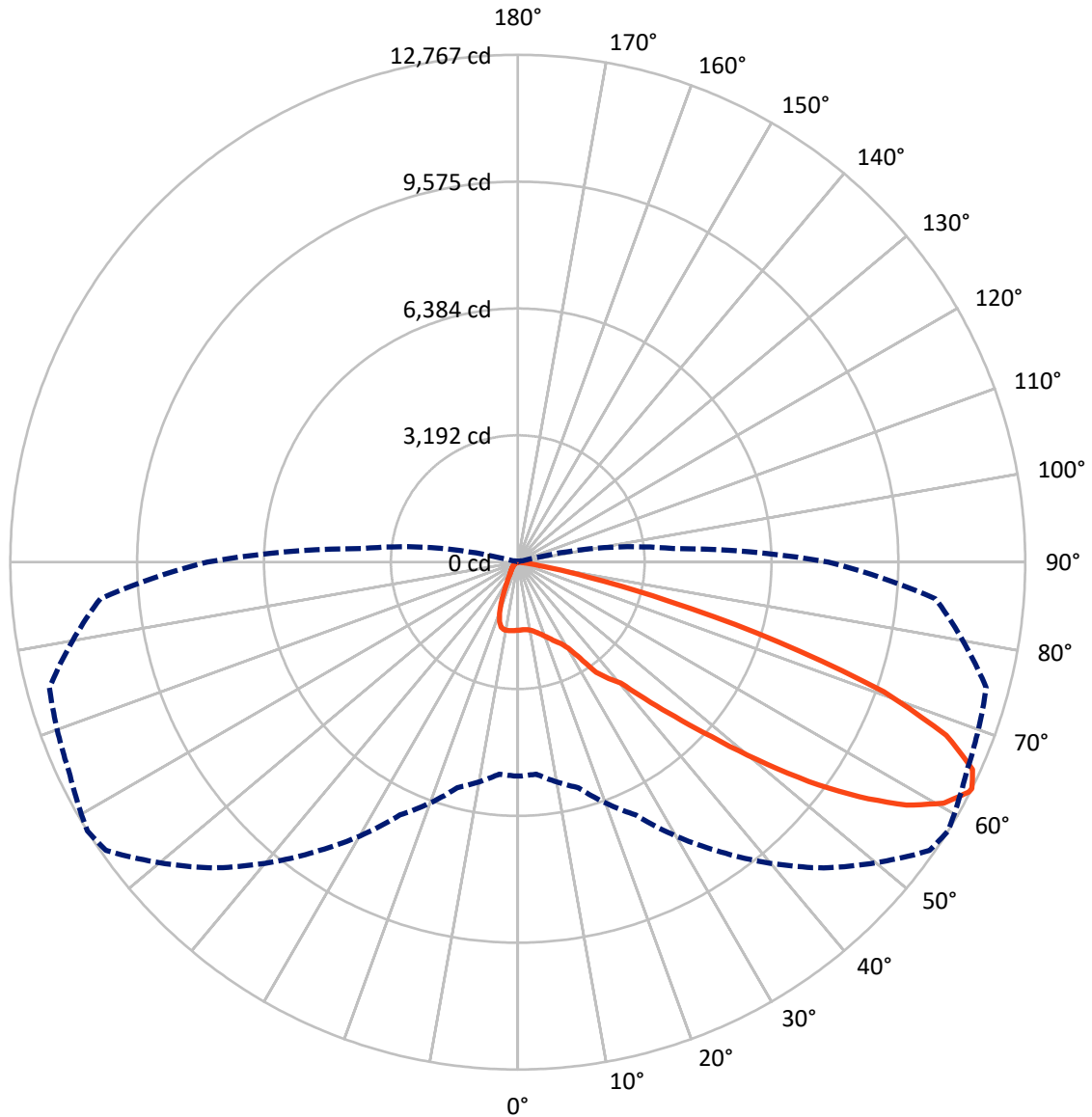
✕ Max cd
 - - - 1/2 Max cd



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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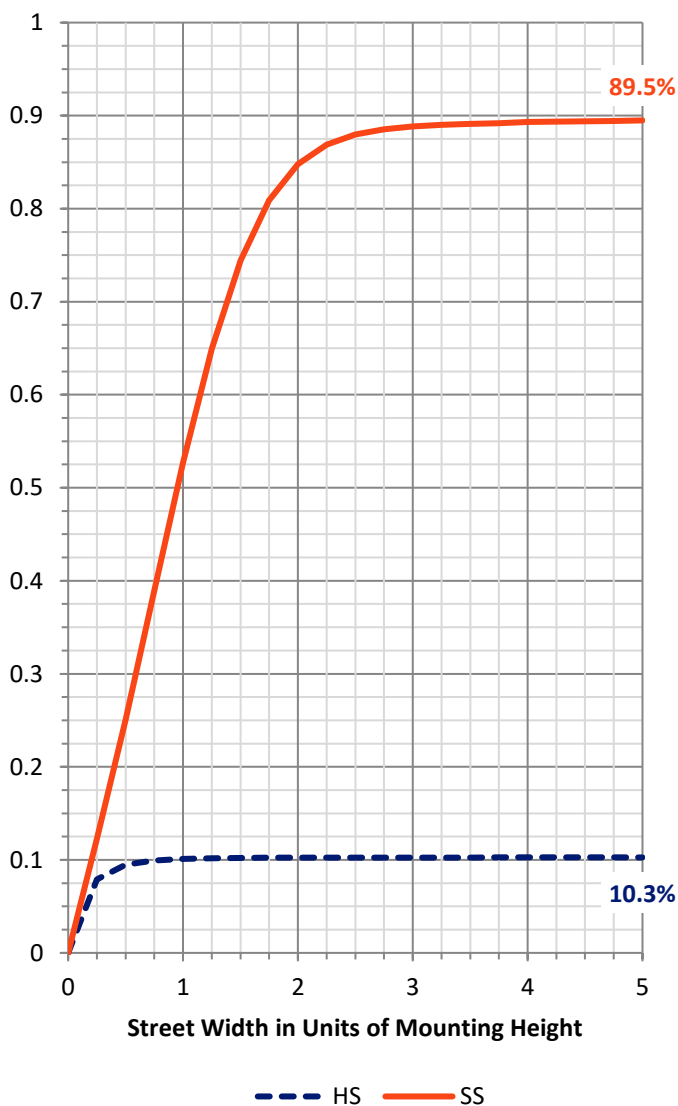
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.6	0.0	1585.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13727.4	0.0	13727.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	15313.0	0.0	15313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.0
10°-20°	437.1	2.9
20°-30°	758.6	5.0
30°-40°	1394.1	9.1
40°-50°	2624.3	17.1
50°-60°	4488.6	29.3
60°-70°	4297.8	28.1
70°-80°	1096.0	7.2
80°-90°	56.0	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°	15313.0	100.0
0°-180°	15313.0	100.0

Coefficient of Utilization



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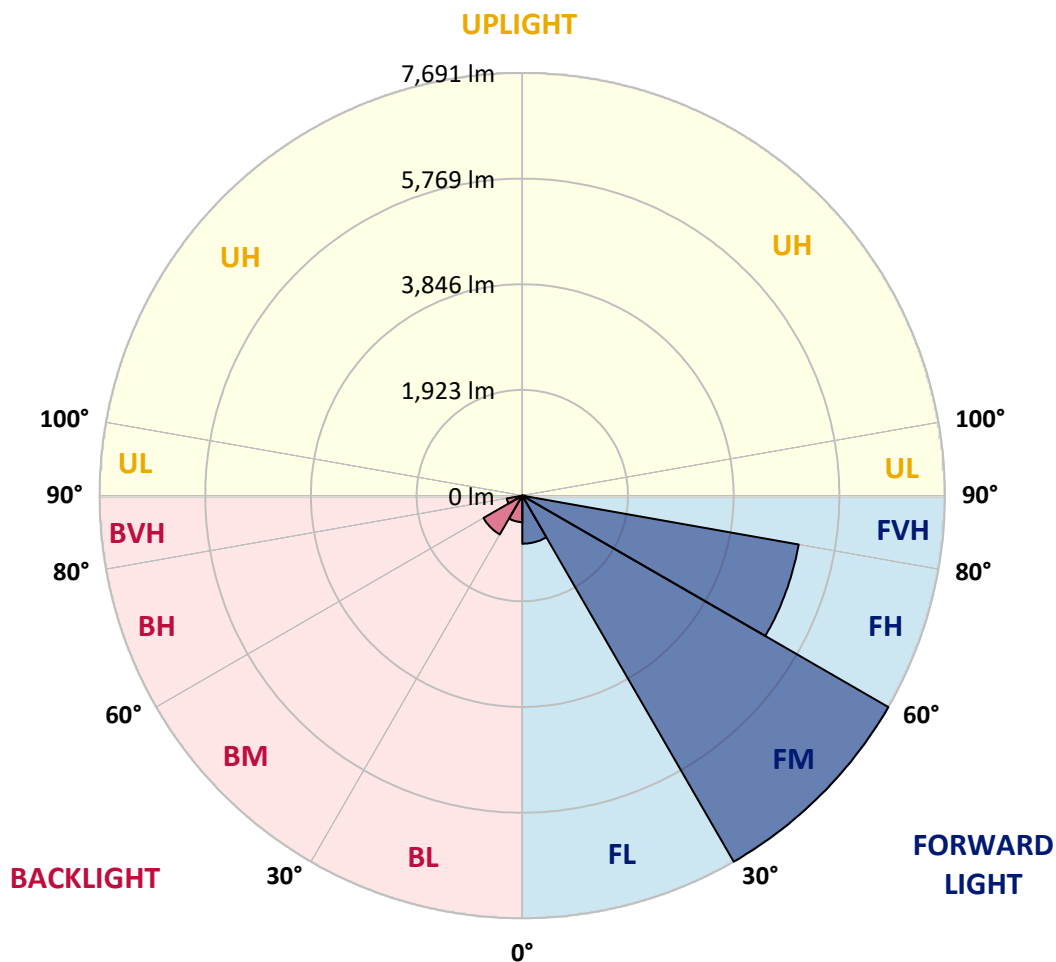
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	875.4	5.7			
FM (30°-60°)	7691.4	50.2			
FH (60°-80°)	5106.8	33.3			G3/7500
FVH (80°-90°)	53.9	0.4			G1/100
BL (0°-30°)	480.9	3.1	B1/500		
BM (30°-60°)	815.5	5.3	B1/1000		
BH (60°-80°)	287.0	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°	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	1671.7	1677.5	1683.2	1685.5	1693.6	1701.7	1707.4	1706.3	1715.5	1720.1	1720.1
5°	1604.8	1604.8	1619.8	1633.6	1656.7	1679.8	1701.7	1706.3	1723.6	1739.7	1745.5
7.5°	1548.3	1551.8	1563.3	1588.7	1619.8	1660.2	1704.0	1714.3	1744.3	1780.1	1795.1
10°	1521.8	1524.1	1539.1	1565.6	1604.8	1660.2	1721.3	1740.9	1787.0	1843.5	1864.2
12.5°	1516.1	1519.5	1534.5	1564.5	1609.4	1676.3	1759.3	1780.1	1846.9	1919.6	1950.7
15°	1526.4	1528.7	1543.7	1576.0	1625.6	1705.1	1810.0	1838.9	1918.4	2002.6	2042.9
17.5°	1563.3	1561.0	1571.4	1597.9	1653.2	1740.9	1871.1	1905.7	1999.1	2114.4	2140.9
20°	1720.1	1705.1	1695.9	1672.8	1694.8	1791.6	1944.9	1995.7	2110.9	2228.5	2247.0
22.5°	2057.9	2024.5	1958.8	1868.8	1799.7	1860.8	2033.7	2092.5	2241.2	2356.5	2356.5
25°	2487.9	2445.3	2379.6	2183.6	2014.1	1974.9	2134.0	2207.8	2383.0	2499.5	2461.4
27.5°	3026.3	2992.9	2864.9	2636.7	2377.3	2174.4	2250.4	2318.5	2508.7	2649.3	2569.8
30°	3464.4	3448.3	3343.4	3139.3	2853.4	2557.1	2467.2	2512.2	2675.9	2838.4	2756.6
32.5°	3834.5	3834.5	3727.3	3537.1	3269.6	3006.7	2835.0	2867.2	3024.0	3212.0	3059.8
35°	4241.5	4227.7	4141.2	3960.2	3660.4	3428.7	3358.4	3402.2	3544.0	3683.5	3308.8
37.5°	4669.2	4664.6	4574.7	4399.4	4155.0	3863.3	3698.5	3710.0	3782.6	3868.0	3600.5
40°	5133.8	5140.7	5023.1	4914.8	4684.2	4385.6	4069.7	3997.1	4065.1	4306.0	4138.9
42.5°	5682.6	5666.5	5615.7	5468.2	5282.5	5103.9	4724.5	4698.0	4758.0	5016.2	4835.2
45°	6320.2	6343.2	6255.6	6173.7	6049.2	5900.5	5583.5	5537.3	5603.1	6004.3	5747.2
47.5°	6958.9	6936.9	6993.4	6978.5	7045.3	6934.6	6654.5	6560.0	6717.9	7098.4	6720.2
50°	7445.4	7469.6	7587.2	7759.0	8046.0	8108.3	7839.7	7807.4	7877.7	8122.1	7590.6
52.5°	7761.3	7842.0	8026.4	8468.0	8985.6	9388.0	9183.9	9166.6	9137.8	9203.5	8423.0
55°	7967.6	8049.5	8290.4	8940.7	9831.9	10485.5	10495.9	10422.1	10231.9	10184.6	9201.2
57.5°	7840.8	7857.0	8200.5	9069.8	10301.1	11268.4	11607.3	11533.5	11181.9	11003.2	9888.3
60°	7047.6	7081.1	7559.5	8581.0	10097.0	11524.3	12344.0	12310.6	11925.5	11723.8	10423.3
62.5°	5642.3	5739.1	6231.4	7370.4	9148.2	11093.1	12642.6	12737.1	12437.4	12159.5	10591.6
63°	5384.0	5352.9	5872.8	7017.7	8896.9	10879.8	12647.2	12767.1	12460.5	12201.1	10545.5
65°	3985.5	4078.9	4416.7	5533.9	7403.9	9887.2	12362.5	12574.6	12375.1	12017.7	10034.8
67.5°	2237.8	2233.2	2606.7	3621.2	5182.2	7755.5	11178.4	11626.9	11585.4	10784.1	8318.1
70°	1095.2	1112.5	1265.9	1876.9	3005.6	5350.6	9288.8	9773.1	9788.0	8470.3	5751.8
72.5°	495.7	503.8	613.3	914.2	1544.9	2848.8	6400.9	6863.2	6777.8	5397.8	3176.2
75°	261.7	279.0	337.8	460.0	744.8	1174.8	3481.7	3929.1	3750.4	2466.0	1169.0
77.5°	193.7	199.5	229.4	292.8	398.9	457.7	1502.2	1787.0	1674.0	892.3	387.4
80°	141.8	146.4	170.6	207.5	251.3	232.9	566.1	649.1	582.2	303.2	118.7
82.5°	86.5	87.6	124.5	154.5	157.9	130.3	186.8	200.6	209.8	170.6	64.6
85°	31.1	39.2	84.2	111.8	93.4	65.7	78.4	86.5	94.5	108.4	38.0
87.5°	3.5	4.6	40.4	54.2	26.5	24.2	28.8	32.3	34.6	40.4	18.4
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°	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	1724.7	1729.3	1725.9	1720.1	1719.0	1715.5	1708.6	1708.6	1708.6	1710.9	1708.6
5°	1750.1	1753.5	1745.5	1733.9	1721.3	1705.1	1687.8	1677.5	1676.3	1674.0	1668.2
7.5°	1798.5	1803.1	1784.7	1757.0	1722.4	1683.2	1646.3	1611.7	1595.6	1582.9	1582.9
10°	1868.8	1873.4	1836.6	1787.0	1717.8	1638.3	1550.6	1471.1	1408.8	1380.0	1373.1
12.5°	1953.0	1955.3	1894.2	1807.7	1693.6	1540.3	1353.5	1179.4	1058.4	1003.0	997.3
15°	2045.2	2029.1	1948.4	1815.8	1624.4	1338.5	1015.7	802.4	676.7	639.9	653.7
17.5°	2138.6	2108.6	1989.9	1803.1	1468.8	1015.7	682.5	547.6	508.4	498.0	498.0
20°	2226.2	2184.7	2019.9	1747.8	1199.0	699.8	506.1	473.8	466.9	460.0	461.2
22.5°	2313.9	2250.4	2046.4	1624.4	893.5	500.4	453.1	442.7	433.5	424.3	423.1
25°	2399.2	2311.5	2056.8	1396.2	608.7	430.0	413.9	400.1	381.6	371.2	368.9
27.5°	2487.9	2385.3	2049.8	1107.9	443.9	385.1	368.9	349.3	327.4	309.0	309.0
30°	2658.6	2526.0	2025.6	796.6	373.5	339.0	318.2	287.1	262.9	244.4	243.3
32.5°	2891.5	2709.3	1942.6	560.3	332.0	298.6	267.5	232.9	207.5	193.7	193.7
35°	3099.0	2893.8	1787.0	412.7	298.6	259.4	221.4	187.9	168.3	159.1	155.6
37.5°	3414.9	3163.5	1572.5	335.5	266.3	224.8	185.6	154.5	138.3	131.4	131.4
40°	3888.7	3493.3	1309.7	294.0	235.2	191.4	154.5	130.3	117.6	109.5	109.5
42.5°	4476.7	3896.8	1043.4	264.0	206.4	164.9	129.1	110.7	99.1	93.4	92.2
45°	5216.8	4322.2	803.6	236.3	183.3	140.7	109.5	93.4	81.9	78.4	79.5
47.5°	5989.3	4696.9	622.6	212.1	159.1	118.7	93.4	80.7	72.6	68.0	68.0
50°	6648.7	4955.1	472.7	184.5	140.7	100.3	81.9	72.6	65.7	63.4	62.3
52.5°	7199.8	5030.1	362.0	160.3	123.4	86.5	72.6	65.7	60.0	56.5	56.5
55°	7669.0	4964.4	283.6	134.9	103.8	74.9	64.6	58.8	51.9	48.4	47.3
57.5°	7943.4	4753.4	216.7	111.8	84.2	62.3	56.5	49.6	41.5	35.7	35.7
60°	8081.8	4446.7	166.0	92.2	64.6	49.6	46.1	36.9	28.8	24.2	23.1
62.5°	7915.8	4039.7	125.7	72.6	48.4	36.9	31.1	26.5	18.4	13.8	13.8
63°	7813.1	3922.1	121.1	69.2	45.0	34.6	28.8	24.2	16.1	12.7	11.5
65°	7122.6	3409.1	99.1	55.3	35.7	24.2	19.6	17.3	11.5	5.8	4.6
67.5°	5656.1	2607.8	78.4	41.5	25.4	17.3	11.5	10.4	3.5	0.0	0.0
70°	3824.1	1684.4	61.1	30.0	17.3	10.4	5.8	4.6	1.2	0.0	0.0
72.5°	1994.5	863.5	47.3	21.9	10.4	6.9	3.5	1.2	0.0	0.0	0.0
75°	705.6	294.0	34.6	13.8	6.9	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	213.3	109.5	21.9	10.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	74.9	40.4	12.7	6.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	36.9	19.6	8.1	5.8	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	20.8	12.7	6.9	5.8	3.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	9.2	6.9	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)