

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: P458853

Luminaire Tested: **GALN-SA3D-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458853
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 15794 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

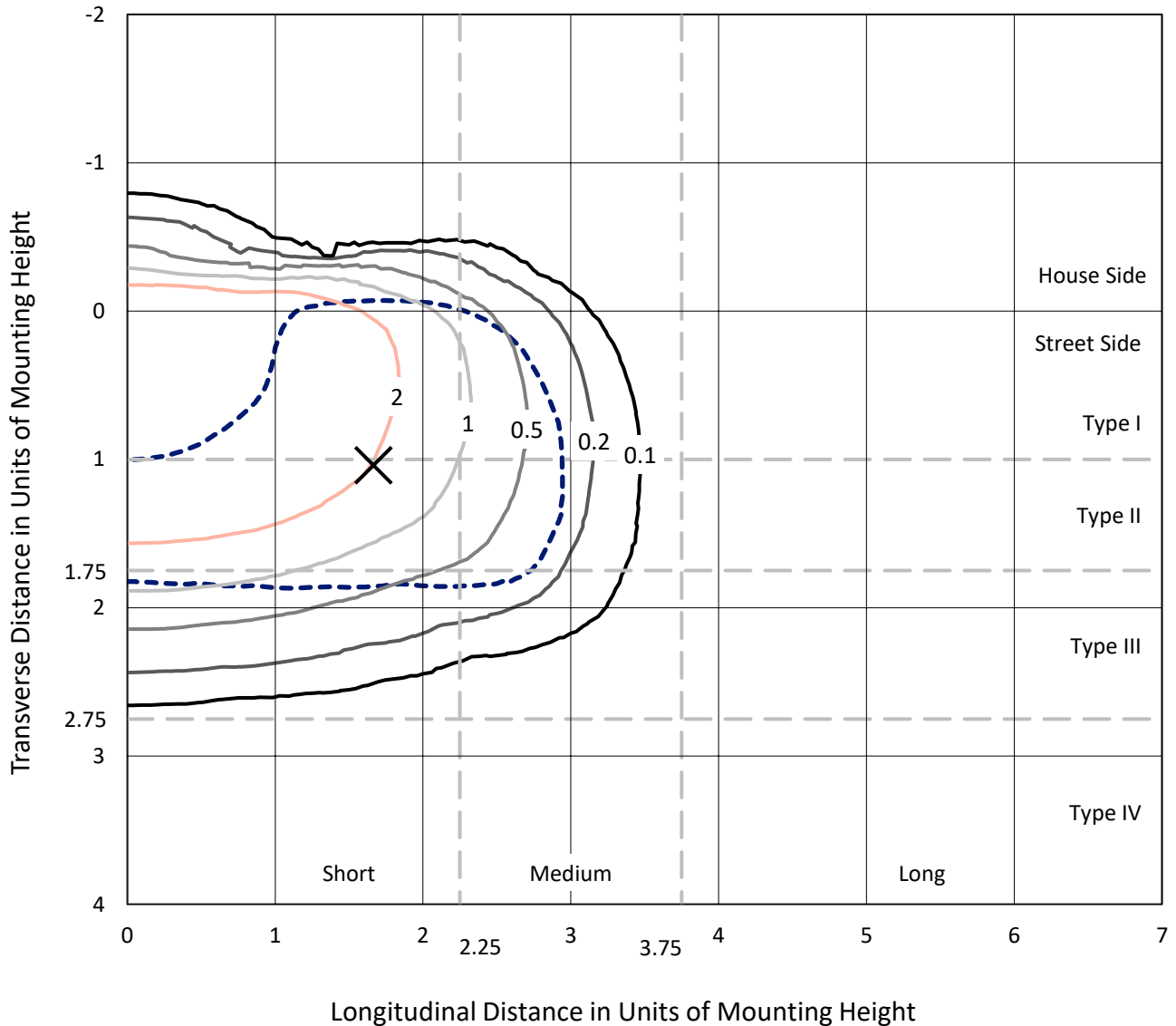
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

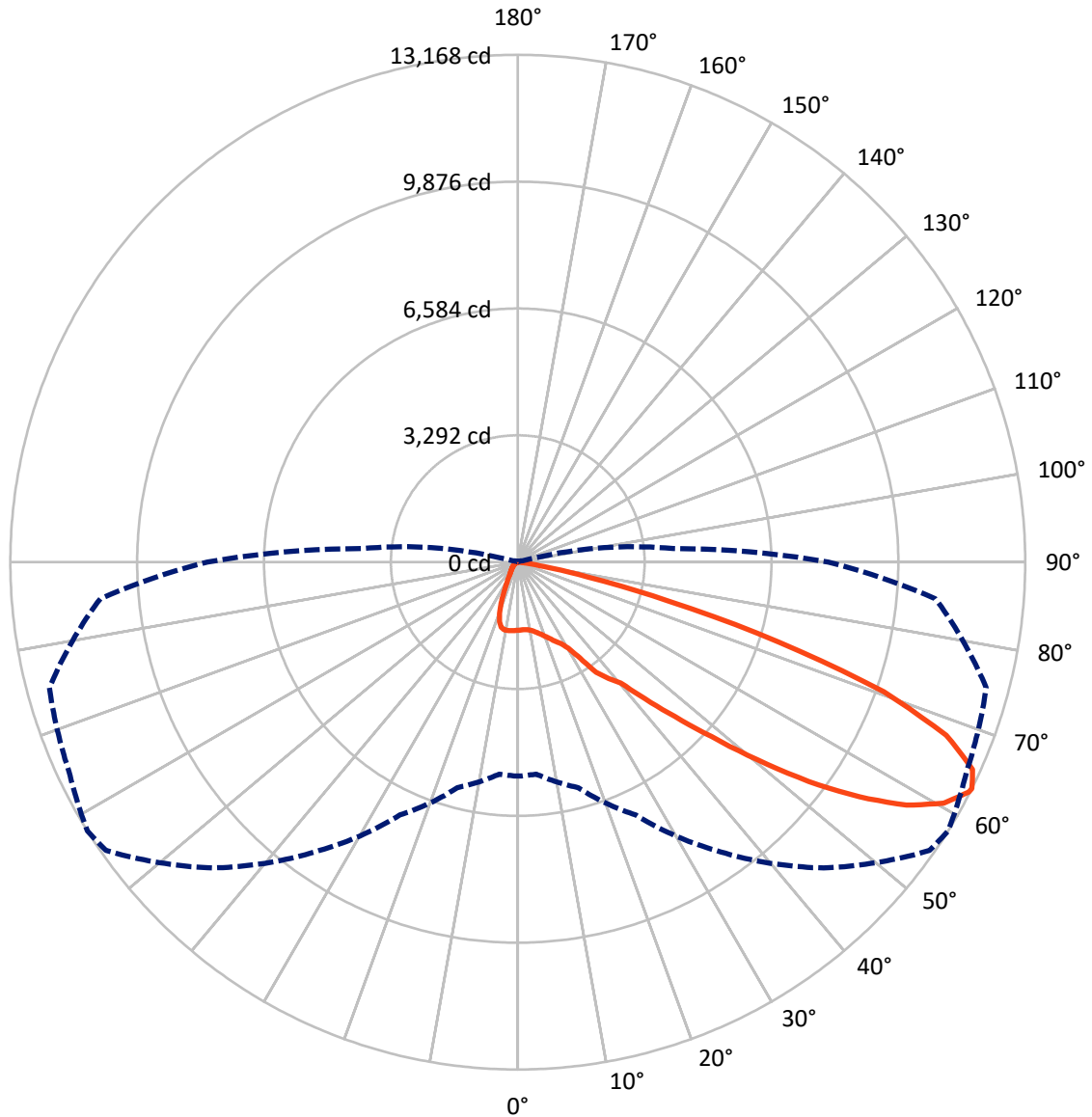
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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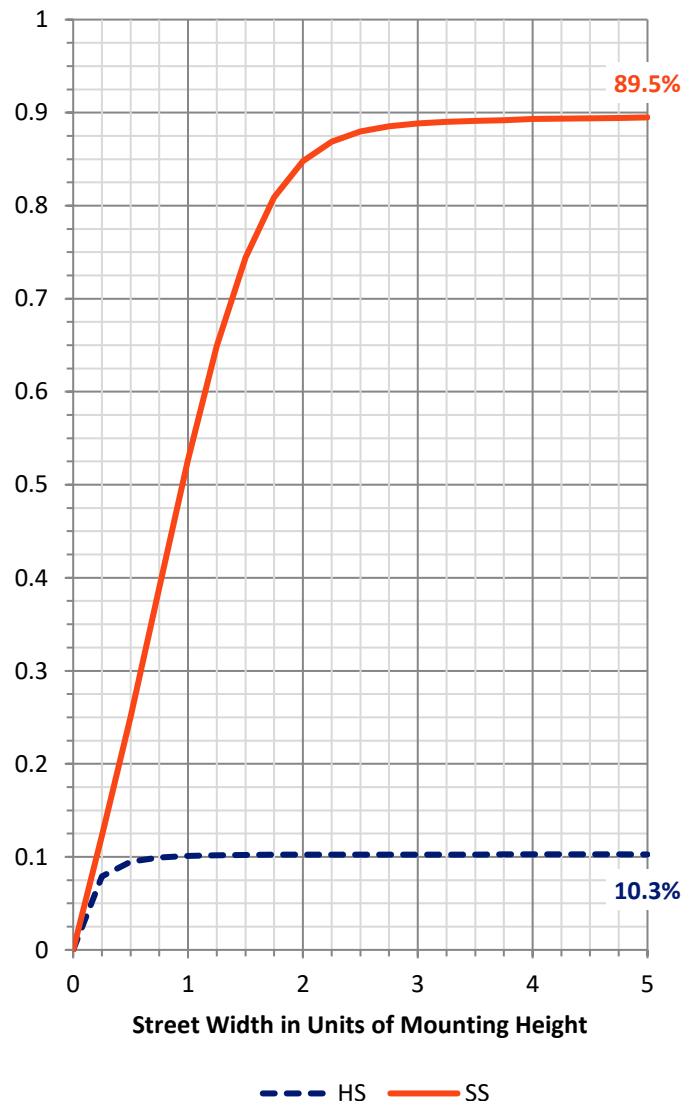
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.4	0.0	1635.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14158.6	0.0	14158.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	15794.0	0.0	15794.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	1.0
10°-20°	450.8	2.9
20°-30°	782.4	5.0
30°-40°	1437.8	9.1
40°-50°	2706.7	17.1
50°-60°	4629.6	29.3
60°-70°	4432.9	28.1
70°-80°	1130.4	7.2
80°-90°	57.8	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°	15794.0	100.0
0°-180°	15794.0	100.0



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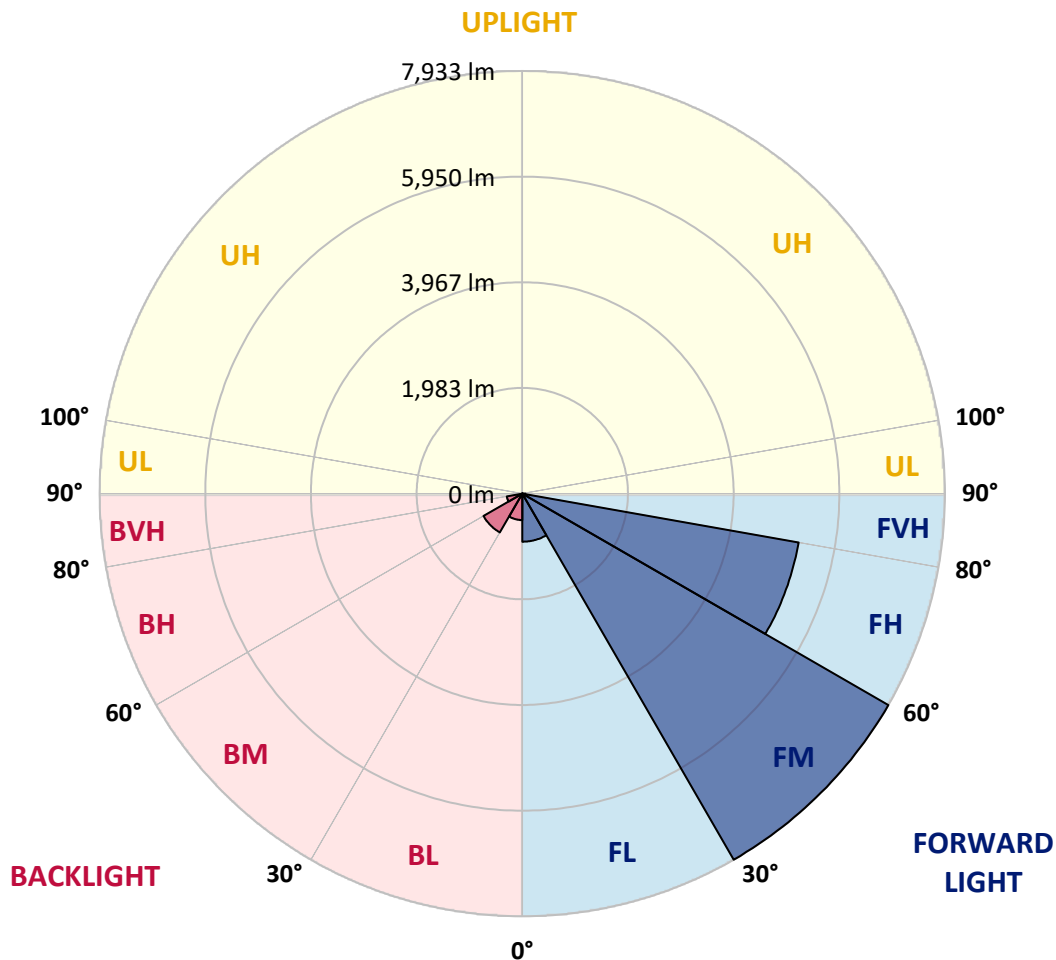
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.9	5.7			
FM (30°-60°)	7933.0	50.2			
FH (60°-80°)	5267.2	33.3			G3/7500
FVH (80°-90°)	55.6	0.4			G1/100
BL (0°-30°)	496.0	3.1	B1/500		
BM (30°-60°)	841.1	5.3	B1/1000		
BH (60°-80°)	296.0	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°	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2
2.5°	1724.2	1730.1	1736.1	1738.5	1746.8	1755.1	1761.1	1759.9	1769.4	1774.1	1774.1
5°	1655.2	1655.2	1670.7	1685.0	1708.7	1732.5	1755.1	1759.9	1777.7	1794.4	1800.3
7.5°	1597.0	1600.5	1612.4	1638.6	1670.7	1712.3	1757.5	1768.2	1799.1	1836.0	1851.4
10°	1569.6	1572.0	1587.5	1614.8	1655.2	1712.3	1775.3	1795.5	1843.1	1901.4	1922.8
12.5°	1563.7	1567.2	1582.7	1613.6	1660.0	1729.0	1814.6	1836.0	1904.9	1979.9	2012.0
15°	1574.4	1576.8	1592.2	1625.5	1676.6	1758.7	1866.9	1896.6	1978.7	2065.5	2107.1
17.5°	1612.4	1610.0	1620.8	1648.1	1705.2	1795.5	1929.9	1965.6	2061.9	2180.8	2208.2
20°	1774.1	1758.7	1749.2	1725.4	1748.0	1847.9	2006.0	2058.3	2177.3	2298.5	2317.6
22.5°	2122.6	2088.1	2020.3	1927.5	1856.2	1919.2	2097.6	2158.2	2311.6	2430.5	2430.5
25°	2566.1	2522.1	2454.3	2252.2	2077.4	2036.9	2201.0	2277.1	2457.9	2578.0	2538.7
27.5°	3121.4	3086.9	2954.9	2719.5	2451.9	2242.7	2321.1	2391.3	2587.5	2732.6	2650.5
30°	3573.3	3556.6	3448.4	3237.9	2943.0	2637.4	2544.7	2591.1	2759.9	2927.6	2843.2
32.5°	3955.0	3955.0	3844.4	3648.2	3372.3	3101.2	2924.0	2957.3	3119.0	3312.8	3155.9
35°	4374.7	4360.4	4271.3	4084.6	3775.4	3536.4	3463.9	3509.0	3655.3	3799.2	3412.7
37.5°	4815.9	4811.1	4718.4	4537.6	4285.5	3984.7	3814.6	3826.5	3901.5	3989.4	3713.6
40°	5295.1	5302.2	5180.9	5069.2	4831.3	4523.4	4197.5	4122.6	4192.8	4441.3	4268.9
42.5°	5861.1	5844.5	5792.1	5639.9	5448.5	5264.2	4873.0	4845.6	4907.4	5173.8	4987.1
45°	6518.7	6542.5	6452.1	6367.7	6239.2	6085.8	5758.8	5711.3	5779.1	6192.9	5927.7
47.5°	7177.4	7154.8	7213.1	7197.7	7266.6	7152.5	6863.5	6766.0	6928.9	7321.3	6931.3
50°	7679.2	7704.2	7825.5	8002.7	8298.8	8363.0	8085.9	8052.6	8125.2	8377.2	7829.1
52.5°	8005.1	8088.3	8278.6	8734.0	9267.9	9682.9	9472.4	9454.6	9424.8	9492.6	8687.6
55°	8217.9	8302.3	8550.9	9221.5	10140.7	10814.9	10825.6	10749.5	10553.3	10504.6	9490.2
57.5°	8087.1	8103.8	8458.1	9354.7	10624.7	11622.3	11971.9	11895.8	11533.1	11348.8	10199.0
60°	7269.0	7303.5	7797.0	8850.5	10414.2	11886.3	12731.7	12697.3	12300.1	12092.0	10750.7
62.5°	5819.5	5919.4	6427.1	7601.9	9435.5	11441.6	13039.7	13137.2	12828.1	12541.5	10924.3
63°	5553.1	5521.0	6057.3	7238.1	9176.3	11221.6	13044.5	13168.2	12851.8	12584.3	10876.7
65°	4110.7	4207.1	4555.5	5707.7	7636.4	10197.8	12750.8	12969.6	12763.9	12395.2	10350.0
67.5°	2308.1	2303.3	2688.6	3735.0	5345.0	7999.1	11529.6	11992.1	11949.3	11122.9	8579.4
70°	1129.6	1147.5	1305.6	1935.9	3100.0	5518.6	9580.6	10080.0	10095.5	8736.4	5932.4
72.5°	511.3	519.6	632.6	943.0	1593.4	2938.3	6601.9	7078.7	6990.7	5567.4	3276.0
75°	269.9	287.8	348.4	474.5	768.2	1211.7	3591.1	4052.5	3868.2	2543.5	1205.8
77.5°	199.8	205.7	236.6	302.0	411.4	472.1	1549.4	1843.1	1726.6	920.4	399.5
80°	146.3	151.0	176.0	214.0	259.2	240.2	583.9	669.5	600.5	312.7	122.5
82.5°	89.2	90.4	128.4	159.3	162.9	134.4	192.6	206.9	216.4	176.0	66.6
85°	32.1	40.4	86.8	115.3	96.3	67.8	80.9	89.2	97.5	111.8	39.2
87.5°	3.6	4.8	41.6	55.9	27.3	25.0	29.7	33.3	35.7	41.6	19.0
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°	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2	1768.2
2.5°	1778.9	1783.7	1780.1	1774.1	1773.0	1769.4	1762.3	1762.3	1762.3	1764.6	1762.3
5°	1805.1	1808.6	1800.3	1788.4	1775.3	1758.7	1740.8	1730.1	1729.0	1726.6	1720.6
7.5°	1855.0	1859.8	1840.7	1812.2	1776.5	1736.1	1698.0	1662.4	1645.7	1632.6	1632.6
10°	1927.5	1932.3	1894.2	1843.1	1771.8	1689.7	1599.3	1517.3	1453.1	1423.4	1416.2
12.5°	2014.3	2016.7	1953.7	1864.5	1746.8	1588.6	1396.0	1216.5	1091.6	1034.5	1028.6
15°	2109.5	2092.8	2009.6	1872.8	1675.4	1380.6	1047.6	827.6	698.0	660.0	674.2
17.5°	2205.8	2174.9	2052.4	1859.8	1514.9	1047.6	704.0	564.8	524.4	513.7	513.7
20°	2296.2	2253.4	2083.3	1802.7	1236.7	721.8	522.0	488.7	481.6	474.5	475.6
22.5°	2386.5	2321.1	2110.7	1675.4	921.6	516.1	467.3	456.6	447.1	437.6	436.4
25°	2474.5	2384.2	2121.4	1440.0	627.8	443.5	426.9	412.6	393.6	382.9	380.5
27.5°	2566.1	2460.3	2114.2	1142.7	457.8	397.2	380.5	360.3	337.7	318.7	318.7
30°	2742.1	2605.3	2089.3	821.7	385.3	349.6	328.2	296.1	271.1	252.1	250.9
32.5°	2982.3	2794.4	2003.6	577.9	342.5	308.0	275.9	240.2	214.0	199.8	199.8
35°	3196.3	2984.7	1843.1	425.7	308.0	267.5	228.3	193.8	173.6	164.1	160.5
37.5°	3522.1	3262.9	1621.9	346.0	274.7	231.9	191.4	159.3	142.7	135.6	135.6
40°	4010.9	3603.0	1350.8	303.2	242.6	197.4	159.3	134.4	121.3	113.0	113.0
42.5°	4617.3	4019.2	1076.1	272.3	212.8	170.0	133.2	114.2	102.3	96.3	95.1
45°	5380.7	4458.0	828.8	243.8	189.1	145.1	113.0	96.3	84.4	80.9	82.0
47.5°	6177.4	4844.4	642.1	218.8	164.1	122.5	96.3	83.2	74.9	70.2	70.2
50°	6857.6	5110.8	487.5	190.3	145.1	103.5	84.4	74.9	67.8	65.4	64.2
52.5°	7426.0	5188.1	373.4	165.3	127.2	89.2	74.9	67.8	61.8	58.3	58.3
55°	7909.9	5120.3	292.5	139.1	107.0	77.3	66.6	60.6	53.5	49.9	48.8
57.5°	8192.9	4902.7	223.6	115.3	86.8	64.2	58.3	51.1	42.8	36.9	36.9
60°	8335.6	4586.4	171.2	95.1	66.6	51.1	47.6	38.1	29.7	25.0	23.8
62.5°	8164.4	4166.6	129.6	74.9	49.9	38.1	32.1	27.3	19.0	14.3	14.3
63°	8058.6	4045.3	124.9	71.3	46.4	35.7	29.7	25.0	16.6	13.1	11.9
65°	7346.3	3516.2	102.3	57.1	36.9	25.0	20.2	17.8	11.9	5.9	4.8
67.5°	5833.7	2689.8	80.9	42.8	26.2	17.8	11.9	10.7	3.6	0.0	0.0
70°	3944.3	1737.3	63.0	30.9	17.8	10.7	5.9	4.8	1.2	0.0	0.0
72.5°	2057.2	890.6	48.8	22.6	10.7	7.1	3.6	1.2	0.0	0.0	0.0
75°	727.7	303.2	35.7	14.3	7.1	3.6	1.2	0.0	0.0	0.0	0.0
77.5°	220.0	113.0	22.6	10.7	4.8	2.4	0.0	0.0	0.0	0.0	0.0
80°	77.3	41.6	13.1	7.1	3.6	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	38.1	20.2	8.3	5.9	3.6	1.2	0.0	0.0	0.0	0.0	0.0
85°	21.4	13.1	7.1	5.9	3.6	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	9.5	7.1	5.9	4.8	2.4	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)