

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: P453256

Luminaire Tested: **GALN-SA4B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453256
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-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 15051 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

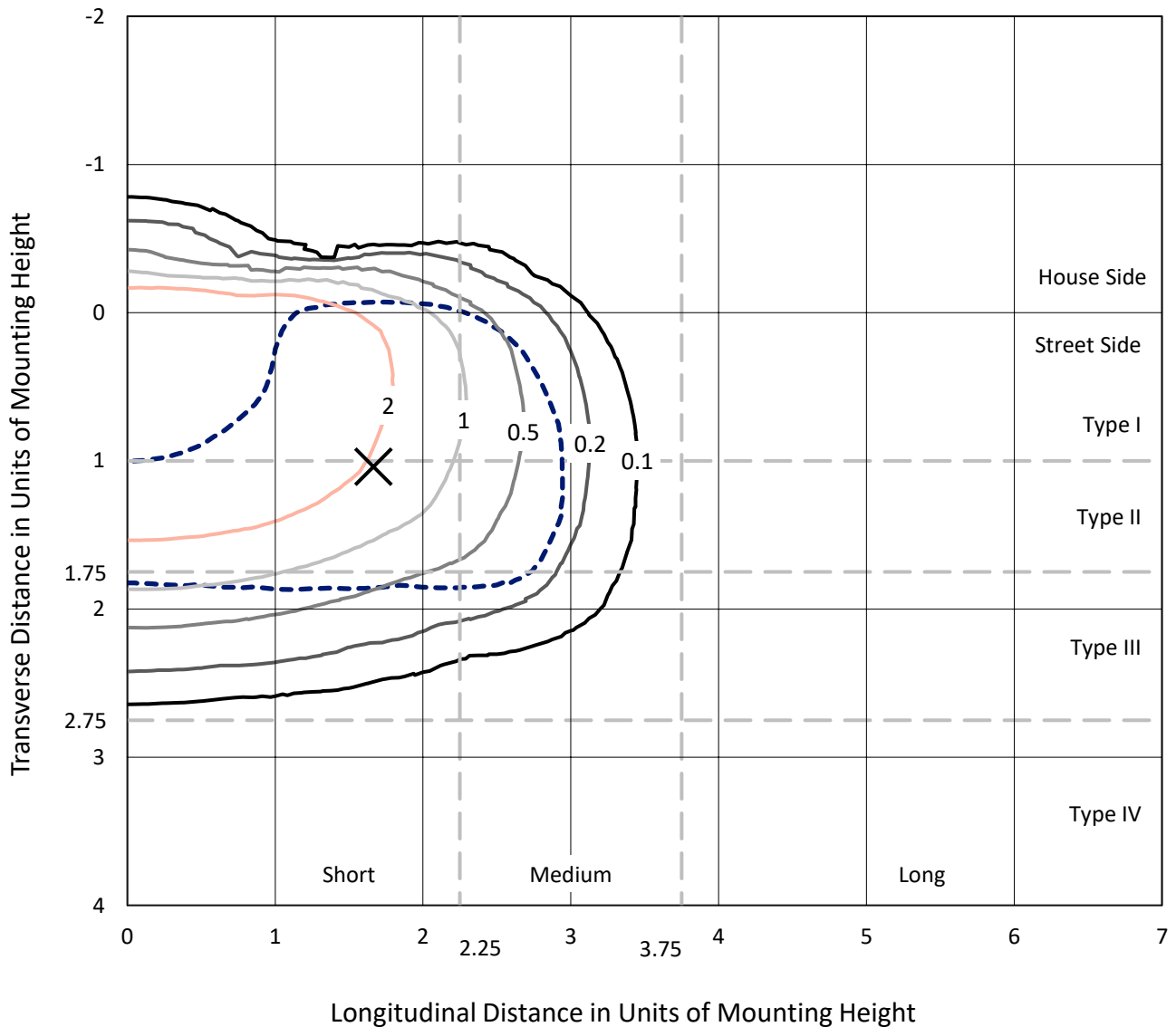
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

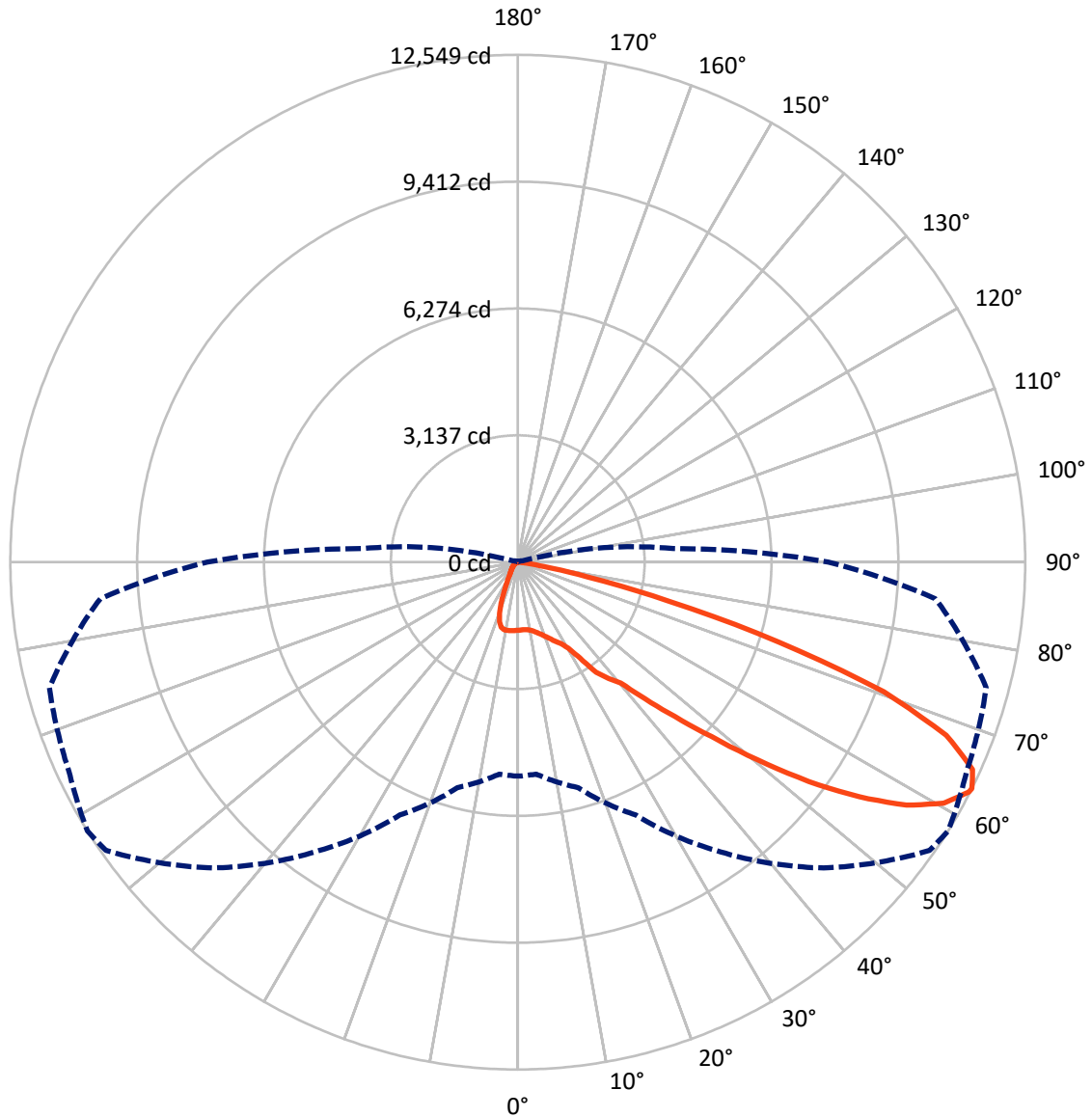
✕ Max cd
 - - - 1/2 Max cd



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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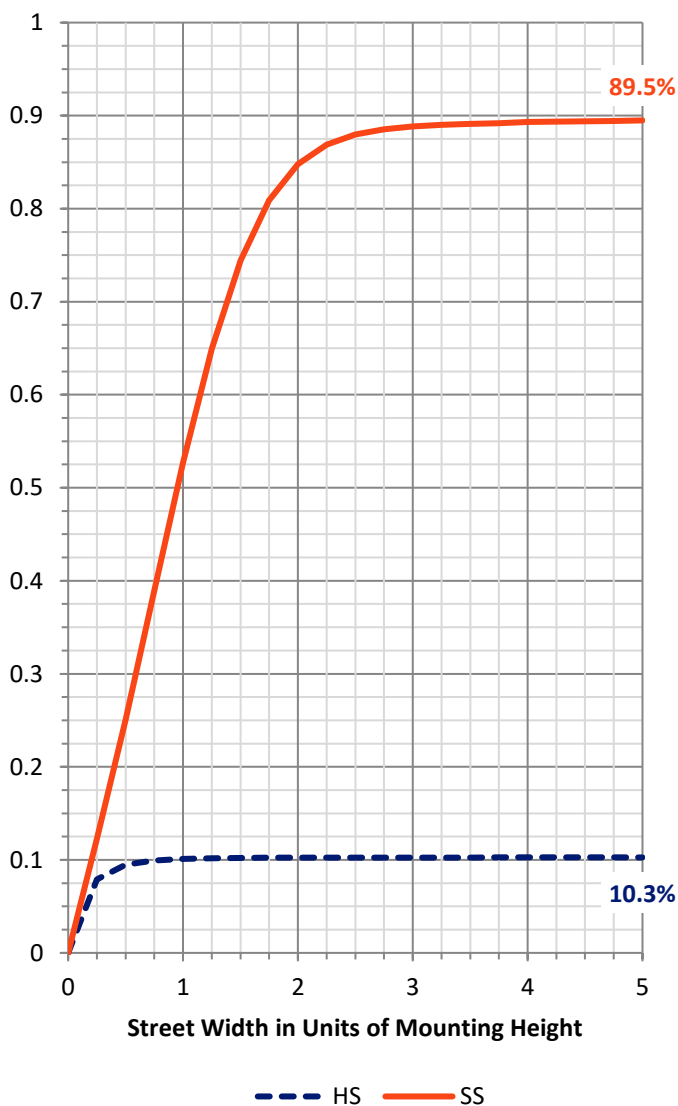
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.4	0.0	1558.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13492.6	0.0	13492.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	15051.0	0.0	15051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	1.0
10°-20°	429.6	2.9
20°-30°	745.6	5.0
30°-40°	1370.2	9.1
40°-50°	2579.4	17.1
50°-60°	4411.8	29.3
60°-70°	4224.3	28.1
70°-80°	1077.2	7.2
80°-90°	55.1	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°	15051.0	100.0
0°-180°	15051.0	100.0

Coefficient of Utilization



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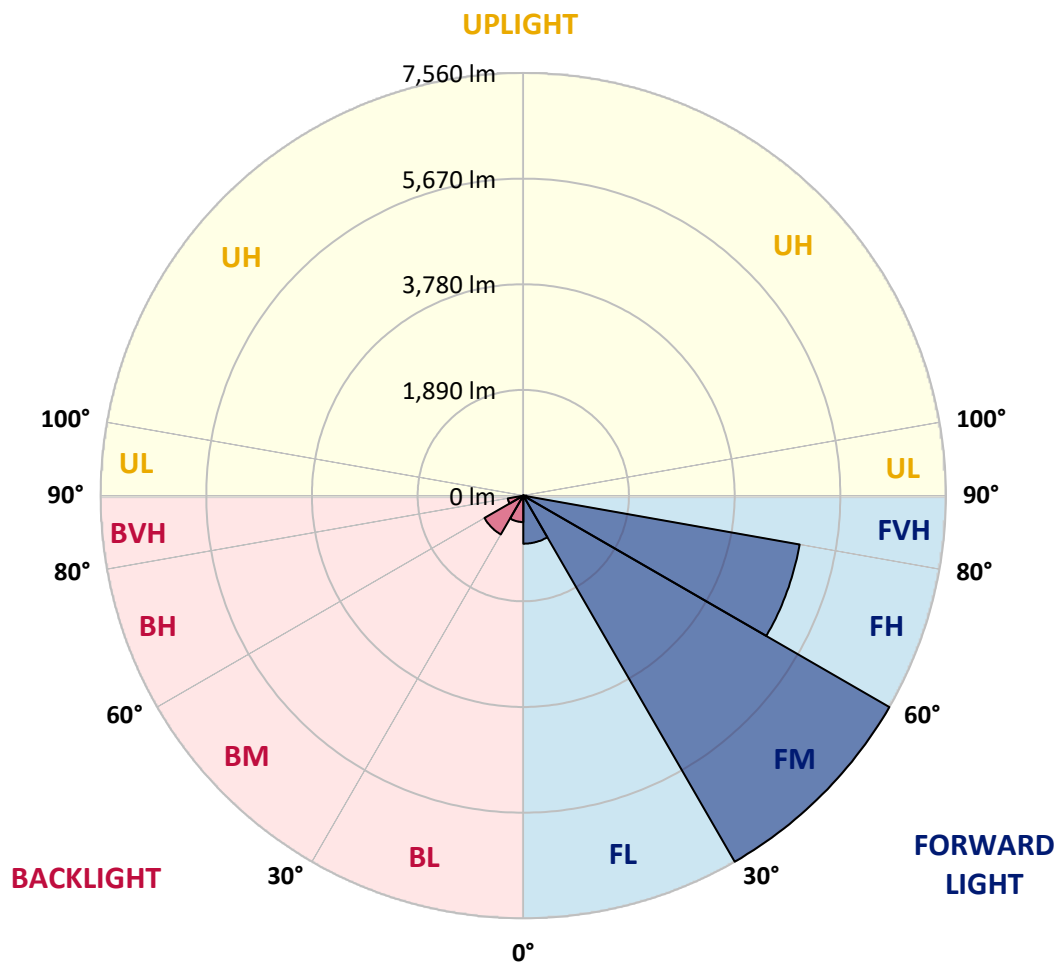
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.4	5.7			
FM (30°-60°)	7559.8	50.2			
FH (60°-80°)	5019.4	33.3			G3/7500
FVH (80°-90°)	52.9	0.4			G1/100
BL (0°-30°)	472.6	3.1	B1/500		
BM (30°-60°)	801.6	5.3	B1/1000		
BH (60°-80°)	282.1	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°	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0
2.5°	1643.1	1648.8	1654.4	1656.7	1664.6	1672.6	1678.2	1677.1	1686.2	1690.7	1690.7
5°	1577.4	1577.4	1592.1	1605.7	1628.4	1651.0	1672.6	1677.1	1694.1	1709.9	1715.6
7.5°	1521.8	1525.2	1536.6	1561.5	1592.1	1631.8	1674.8	1685.0	1714.5	1749.6	1764.3
10°	1495.8	1498.0	1512.8	1538.8	1577.4	1631.8	1691.8	1711.1	1756.4	1811.9	1832.3
12.5°	1490.1	1493.5	1508.2	1537.7	1581.9	1647.6	1729.2	1749.6	1815.3	1886.7	1917.3
15°	1500.3	1502.6	1517.3	1549.0	1597.8	1676.0	1779.1	1807.4	1885.6	1968.3	2008.0
17.5°	1536.6	1534.3	1544.5	1570.6	1625.0	1711.1	1839.1	1873.1	1964.9	2078.2	2104.3
20°	1690.7	1676.0	1666.9	1644.2	1665.8	1760.9	1911.7	1961.5	2074.8	2190.4	2208.5
22.5°	2022.7	1989.8	1925.2	1836.9	1768.9	1828.9	1998.9	2056.7	2202.9	2316.2	2316.2
25°	2445.4	2403.4	2338.9	2146.2	1979.6	1941.1	2097.5	2170.0	2342.3	2456.7	2419.3
27.5°	2974.6	2941.7	2815.9	2591.6	2336.6	2137.2	2211.9	2278.8	2465.8	2604.0	2525.8
30°	3405.2	3389.3	3286.2	3085.6	2804.6	2513.4	2425.0	2469.2	2630.1	2789.9	2709.4
32.5°	3768.9	3768.9	3663.5	3476.6	3213.7	2955.3	2786.5	2818.2	2972.3	3157.0	3007.4
35°	4168.9	4155.3	4070.3	3892.4	3597.8	3370.0	3300.9	3344.0	3483.4	3620.5	3252.2
37.5°	4589.3	4584.8	4496.4	4324.2	4083.9	3797.2	3635.2	3646.5	3717.9	3801.8	3538.9
40°	5046.0	5052.8	4937.2	4830.7	4604.1	4310.6	4000.1	3928.7	3995.5	4232.4	4068.1
42.5°	5585.4	5569.5	5519.7	5374.6	5192.2	5016.5	4643.7	4617.7	4676.6	4930.4	4752.5
45°	6212.0	6234.7	6148.6	6068.1	5945.7	5799.5	5487.9	5442.6	5507.2	5901.5	5648.8
47.5°	6839.8	6818.3	6873.8	6859.1	6924.8	6816.0	6540.6	6447.7	6603.0	6976.9	6605.2
50°	7318.0	7341.8	7457.4	7626.2	7908.4	7969.6	7705.5	7673.8	7742.9	7983.2	7460.8
52.5°	7628.5	7707.8	7889.1	8323.1	8831.9	9227.4	9026.8	9009.8	8981.5	9046.1	8278.9
55°	7831.3	7911.8	8148.6	8787.7	9663.6	10306.1	10316.3	10243.8	10056.8	10010.4	9043.8
57.5°	7706.7	7722.5	8060.2	8914.6	10124.8	11075.6	11408.7	11336.2	10990.6	10814.9	9719.2
60°	6927.0	6959.9	7430.2	8434.2	9924.3	11327.1	12132.8	12099.9	11721.5	11523.2	10245.0
62.5°	5545.7	5640.9	6124.8	7244.3	8991.7	10903.3	12426.3	12519.2	12224.6	11951.5	10410.4
63°	5291.9	5261.3	5772.3	6897.6	8744.6	10693.7	12430.8	12548.7	12247.3	11992.3	10365.1
65°	3917.4	4009.1	4341.2	5439.2	7277.2	9718.0	12150.9	12359.4	12163.4	11812.1	9863.1
67.5°	2199.5	2194.9	2562.1	3559.3	5093.6	7622.8	10987.2	11428.0	11387.2	10599.6	8175.8
70°	1076.5	1093.5	1244.2	1844.8	2954.2	5259.0	9129.9	9605.8	9620.6	8325.4	5653.4
72.5°	487.3	495.2	602.8	898.6	1518.4	2800.1	6291.3	6745.7	6661.9	5305.5	3121.9
75°	257.2	274.2	332.0	452.1	732.0	1154.7	3422.2	3861.8	3686.2	2423.8	1149.0
77.5°	190.4	196.0	225.5	287.8	392.1	449.9	1476.5	1756.4	1645.4	877.1	380.7
80°	139.4	143.9	167.7	204.0	247.0	228.9	556.4	638.0	572.2	298.0	116.7
82.5°	85.0	86.1	122.4	151.8	155.2	128.0	183.6	197.2	206.2	167.7	63.5
85°	30.6	38.5	82.7	109.9	91.8	64.6	77.1	85.0	92.9	106.5	37.4
87.5°	3.4	4.5	39.7	53.3	26.1	23.8	28.3	31.7	34.0	39.7	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°	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0	1685.0
2.5°	1695.2	1699.7	1696.3	1690.7	1689.6	1686.2	1679.4	1679.4	1679.4	1681.6	1679.4
5°	1720.1	1723.5	1715.6	1704.3	1691.8	1676.0	1659.0	1648.8	1647.6	1645.4	1639.7
7.5°	1767.7	1772.3	1754.1	1726.9	1692.9	1654.4	1618.2	1584.2	1568.3	1555.8	1555.8
10°	1836.9	1841.4	1805.1	1756.4	1688.4	1610.2	1524.1	1445.9	1384.7	1356.4	1349.6
12.5°	1919.6	1921.8	1861.8	1776.8	1664.6	1513.9	1330.3	1159.2	1040.2	985.9	980.2
15°	2010.2	1994.4	1915.1	1784.7	1596.6	1315.6	998.3	788.7	665.2	628.9	642.5
17.5°	2102.0	2072.6	1955.8	1772.3	1443.7	998.3	670.8	538.3	499.7	489.5	489.5
20°	2188.1	2147.3	1985.3	1717.9	1178.5	687.8	497.5	465.7	458.9	452.1	453.3
22.5°	2274.3	2211.9	2011.4	1596.6	878.2	491.8	445.3	435.1	426.1	417.0	415.9
25°	2358.1	2272.0	2021.6	1372.3	598.3	422.7	406.8	393.2	375.1	364.9	362.6
27.5°	2445.4	2344.5	2014.8	1089.0	436.3	378.5	362.6	343.3	321.8	303.7	303.7
30°	2613.1	2482.8	1991.0	783.0	367.1	333.2	312.8	282.2	258.4	240.2	239.1
32.5°	2842.0	2662.9	1909.4	550.7	326.4	293.5	262.9	228.9	204.0	190.4	190.4
35°	3045.9	2844.2	1756.4	405.7	293.5	255.0	217.6	184.7	165.4	156.4	153.0
37.5°	3356.4	3109.4	1545.6	329.8	261.8	221.0	182.4	151.8	136.0	129.2	129.2
40°	3822.2	3433.5	1287.3	289.0	231.2	188.1	151.8	128.0	115.6	107.7	107.7
42.5°	4400.1	3830.1	1025.5	259.5	202.8	162.0	126.9	108.8	97.5	91.8	90.7
45°	5127.6	4248.2	789.8	232.3	180.2	138.2	107.7	91.8	80.5	77.1	78.2
47.5°	5886.8	4616.5	611.9	208.5	156.4	116.7	91.8	79.3	71.4	66.9	66.9
50°	6535.0	4870.3	464.6	181.3	138.2	98.6	80.5	71.4	64.6	62.3	61.2
52.5°	7076.6	4944.0	355.8	157.5	121.2	85.0	71.4	64.6	58.9	55.5	55.5
55°	7537.8	4879.4	278.8	132.6	102.0	73.7	63.5	57.8	51.0	47.6	46.5
57.5°	7807.5	4672.0	213.0	109.9	82.7	61.2	55.5	48.7	40.8	35.1	35.1
60°	7943.5	4370.6	163.2	90.7	63.5	48.7	45.3	36.3	28.3	23.8	22.7
62.5°	7780.3	3970.6	123.5	71.4	47.6	36.3	30.6	26.1	18.1	13.6	13.6
63°	7679.5	3855.0	119.0	68.0	44.2	34.0	28.3	23.8	15.9	12.5	11.3
65°	7000.7	3350.8	97.5	54.4	35.1	23.8	19.3	17.0	11.3	5.7	4.5
67.5°	5559.3	2563.2	77.1	40.8	24.9	17.0	11.3	10.2	3.4	0.0	0.0
70°	3758.7	1655.6	60.1	29.5	17.0	10.2	5.7	4.5	1.1	0.0	0.0
72.5°	1960.4	848.7	46.5	21.5	10.2	6.8	3.4	1.1	0.0	0.0	0.0
75°	693.5	289.0	34.0	13.6	6.8	3.4	1.1	0.0	0.0	0.0	0.0
77.5°	209.6	107.7	21.5	10.2	4.5	2.3	0.0	0.0	0.0	0.0	0.0
80°	73.7	39.7	12.5	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	19.3	7.9	5.7	3.4	1.1	0.0	0.0	0.0	0.0	0.0
85°	20.4	12.5	6.8	5.7	3.4	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	9.1	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)