

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: P652358

Luminaire Tested: **GALN-SA4B-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652358
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-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 13898.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

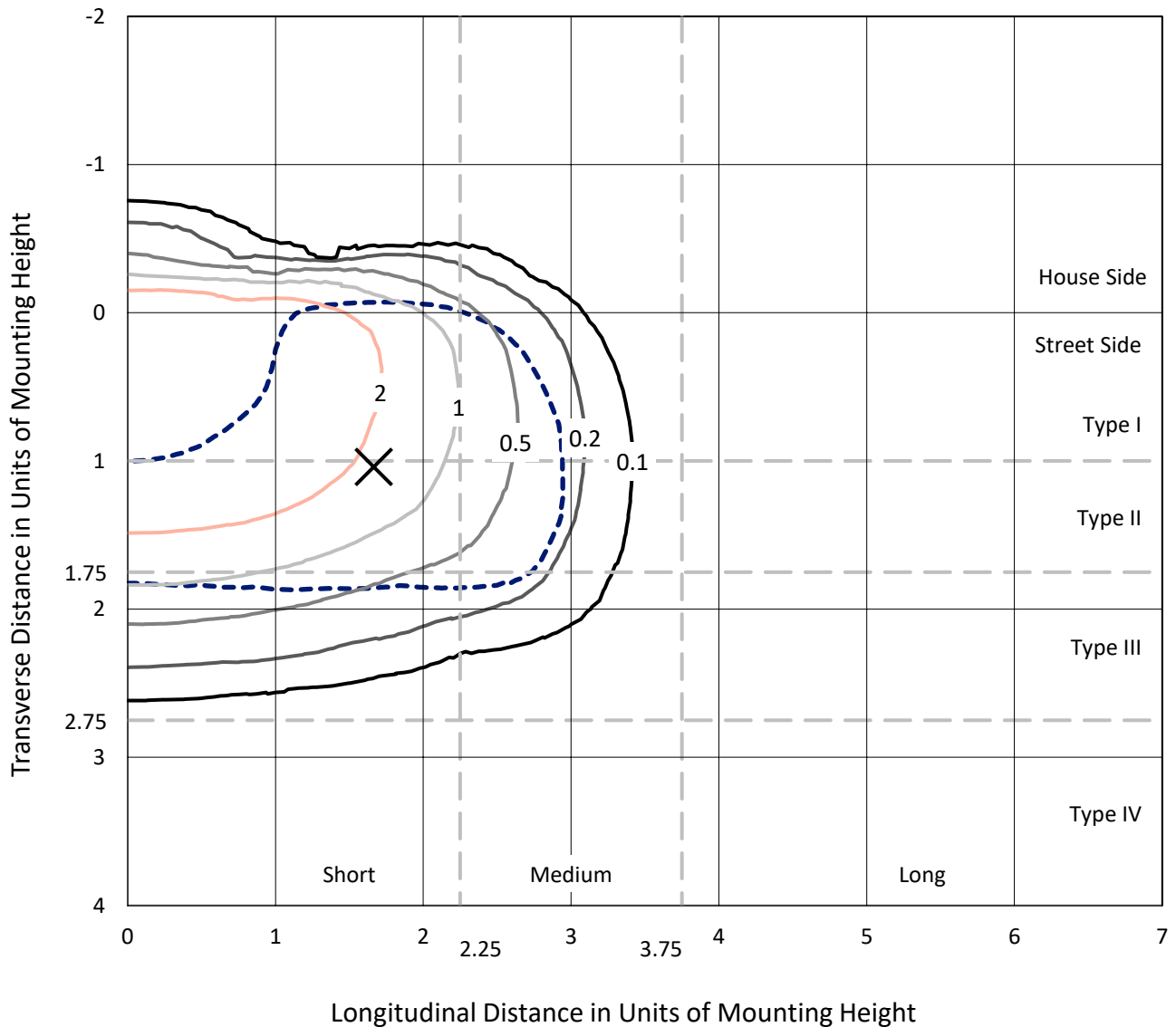
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

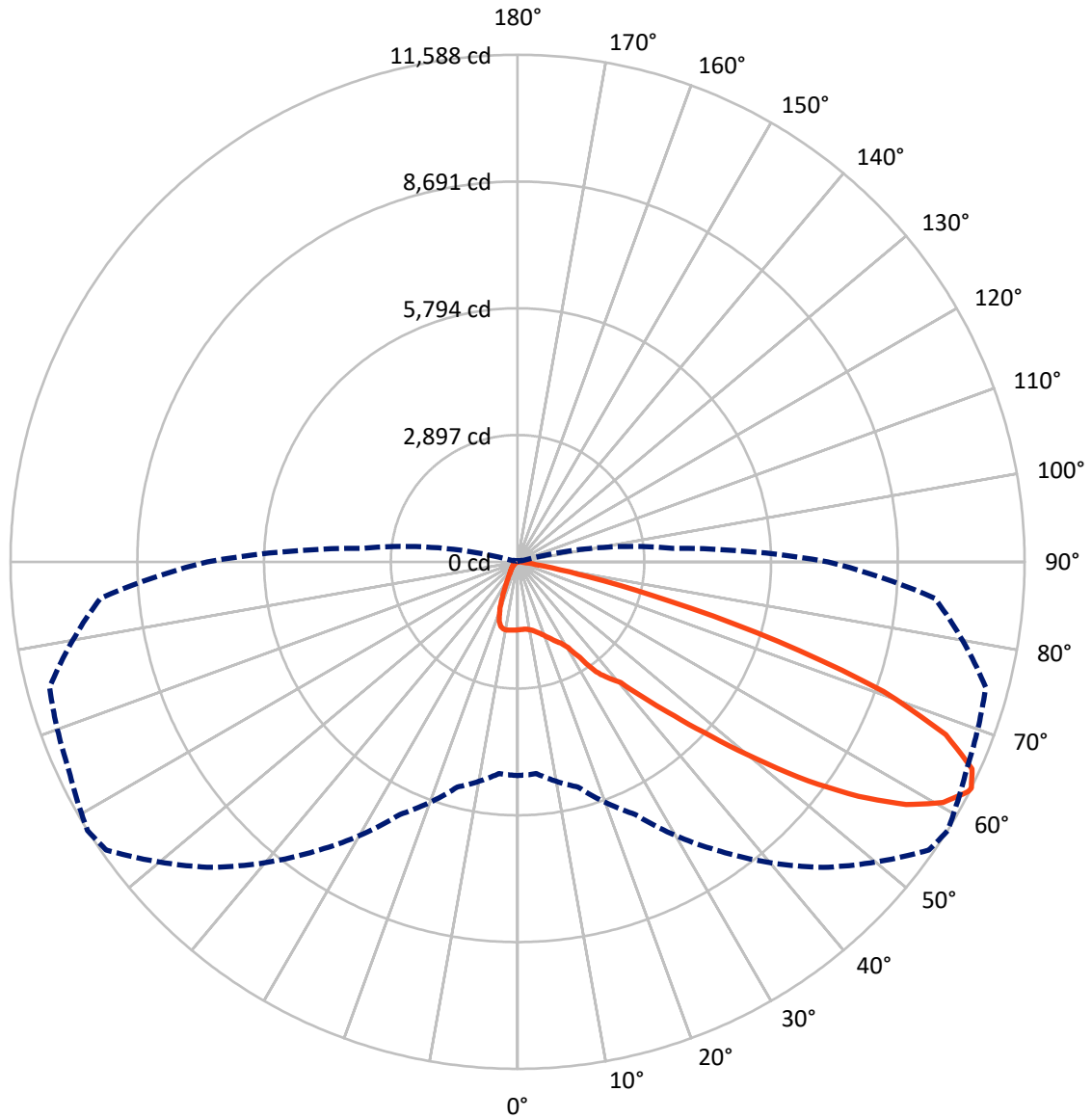
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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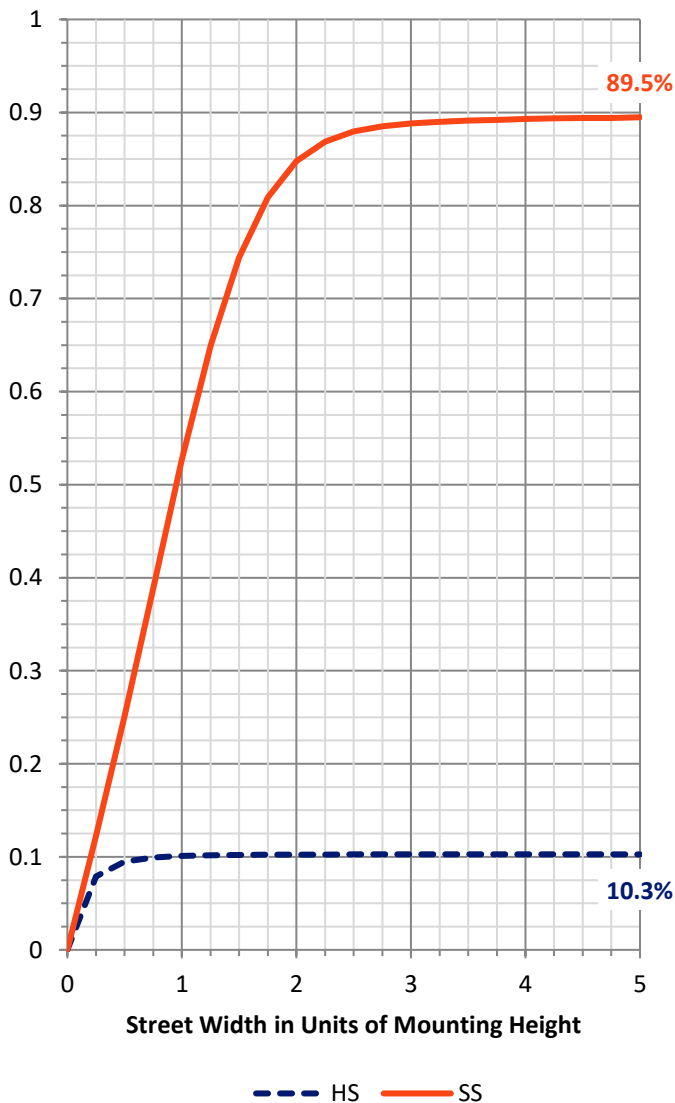
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1439.1	0.0	1439.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12459.3	0.0	12459.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	13898.4	0.0	13898.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.0
10°-20°	396.7	2.9
20°-30°	688.5	5.0
30°-40°	1265.3	9.1
40°-50°	2381.8	17.1
50°-60°	4073.9	29.3
60°-70°	3900.8	28.1
70°-80°	994.7	7.2
80°-90°	50.9	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°	13898.4	100.0
0°-180°	13898.4	100.0

Coefficient of Utilization



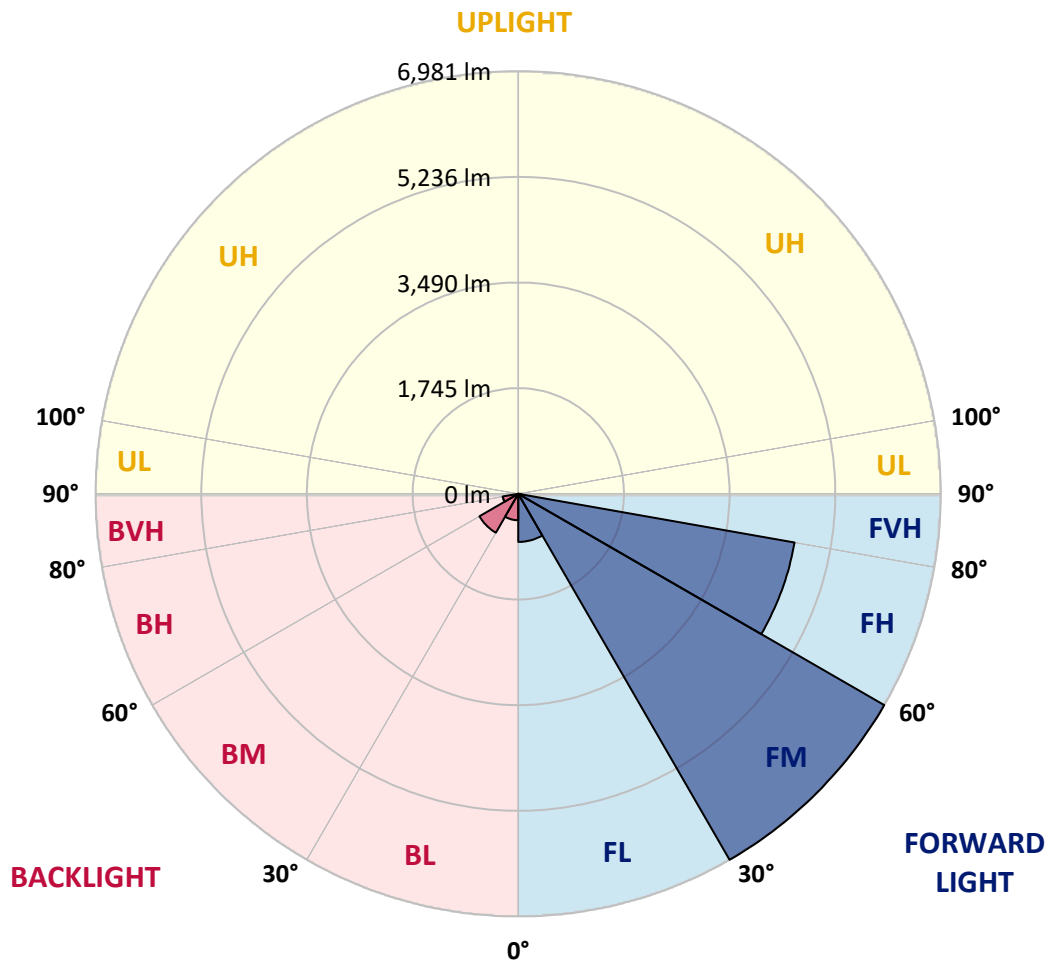
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.5	5.7			
FM (30°-60°)	6980.9	50.2			
FH (60°-80°)	4635.0	33.3			G2/5000
FVH (80°-90°)	48.9	0.4			G1/100
BL (0°-30°)	436.4	3.1	B1/500		
BM (30°-60°)	740.2	5.3	B1/1000		
BH (60°-80°)	260.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9
2.5°	1517.2	1522.5	1527.8	1529.8	1537.2	1544.5	1549.7	1548.6	1557.0	1561.2	1561.2
5°	1456.5	1456.5	1470.2	1482.8	1503.6	1524.6	1544.5	1548.6	1564.3	1579.0	1584.2
7.5°	1405.3	1408.4	1418.9	1441.9	1470.2	1506.8	1546.6	1555.9	1583.2	1615.6	1629.2
10°	1381.3	1383.4	1396.9	1421.0	1456.5	1506.8	1562.2	1580.1	1621.9	1673.2	1692.0
12.5°	1376.0	1379.2	1392.8	1419.9	1460.7	1521.5	1596.8	1615.6	1676.3	1742.2	1770.5
15°	1385.4	1387.5	1401.1	1430.4	1475.4	1547.6	1642.8	1669.0	1741.2	1817.6	1854.2
17.5°	1418.9	1416.8	1426.3	1450.3	1500.5	1580.1	1698.3	1729.7	1814.5	1919.1	1943.1
20°	1561.2	1547.6	1539.2	1518.3	1538.2	1626.1	1765.3	1811.3	1916.0	2022.7	2039.4
22.5°	1867.8	1837.4	1777.8	1696.2	1633.4	1688.9	1845.8	1899.2	2034.2	2138.8	2138.8
25°	2258.1	2219.4	2159.8	1981.8	1828.0	1792.4	1936.8	2003.9	2162.9	2268.6	2234.0
27.5°	2746.8	2716.4	2600.3	2393.1	2157.7	1973.5	2042.5	2104.3	2276.9	2404.6	2332.4
30°	3144.4	3129.8	3034.5	2849.3	2589.8	2320.9	2239.2	2280.0	2428.6	2576.2	2501.9
32.5°	3480.3	3480.3	3383.0	3210.3	2967.6	2729.0	2573.0	2602.4	2744.7	2915.2	2777.2
35°	3849.7	3837.1	3758.6	3594.3	3322.3	3112.0	3048.1	3087.9	3216.6	3343.2	3003.1
37.5°	4237.9	4233.7	4152.1	3993.0	3771.2	3506.5	3356.8	3367.3	3433.2	3510.6	3267.9
40°	4659.6	4665.9	4559.1	4460.7	4251.5	3980.5	3693.8	3627.8	3689.6	3908.2	3756.5
42.5°	5157.6	5143.0	5097.0	4963.0	4794.5	4632.3	4288.1	4264.0	4318.5	4552.8	4388.5
45°	5736.3	5757.2	5677.7	5603.4	5490.4	5355.4	5067.6	5025.8	5085.4	5449.6	5216.2
47.5°	6316.0	6296.1	6347.4	6333.7	6394.5	6294.0	6039.7	5953.9	6097.2	6442.6	6099.4
50°	6757.5	6779.6	6886.3	7042.2	7302.7	7359.3	7115.4	7086.1	7149.9	7371.8	6889.4
52.5°	7044.3	7117.6	7284.9	7685.7	8155.5	8520.8	8335.5	8319.8	8293.7	8353.3	7644.9
55°	7231.6	7305.9	7524.6	8114.7	8923.6	9516.8	9526.3	9459.3	9286.7	9243.8	8351.2
57.5°	7116.5	7131.1	7442.9	8231.9	9349.5	10227.4	10535.0	10468.0	10148.9	9986.7	8974.8
60°	6396.6	6426.9	6861.1	7788.2	9164.2	10459.7	11203.6	11173.3	10823.8	10640.7	9460.4
62.5°	5121.0	5208.9	5655.7	6689.6	8303.1	10068.3	11474.7	11560.5	11288.4	11036.2	9613.1
63°	4886.6	4858.4	5330.3	6369.3	8074.9	9874.8	11478.9	11587.7	11309.3	11073.9	9571.3
65°	3617.4	3702.1	4008.7	5022.6	6719.9	8973.8	11220.4	11413.0	11231.9	10907.5	9107.8
67.5°	2031.0	2026.8	2365.9	3286.7	4703.5	7039.0	10145.7	10552.8	10515.1	9787.9	7549.7
70°	994.1	1009.8	1148.9	1703.5	2728.0	4856.3	8430.8	8870.2	8883.8	7687.8	5220.4
72.5°	449.9	457.3	556.7	829.8	1402.1	2585.7	5809.5	6229.1	6151.7	4899.2	2882.8
75°	237.5	253.2	306.6	417.5	676.0	1066.3	3160.1	3566.1	3403.9	2238.2	1061.0
77.5°	175.8	181.0	208.2	265.8	362.1	415.5	1363.4	1621.9	1519.4	809.9	351.6
80°	128.7	132.9	154.8	188.4	228.1	211.3	513.8	589.1	528.4	275.2	107.8
82.5°	78.5	79.6	113.0	140.2	143.4	118.2	169.5	182.1	190.4	154.8	58.6
85°	28.3	35.6	76.4	101.5	84.8	59.6	71.1	78.5	85.8	98.4	34.6
87.5°	3.1	4.2	36.6	49.2	24.1	22.0	26.2	29.3	31.4	36.6	16.7
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°	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9
2.5°	1565.4	1569.6	1566.4	1561.2	1560.1	1557.0	1550.7	1550.7	1550.7	1552.8	1550.7
5°	1588.4	1591.6	1584.2	1573.8	1562.2	1547.6	1531.9	1522.5	1521.5	1519.4	1514.1
7.5°	1632.4	1636.6	1619.8	1594.7	1563.3	1527.8	1494.2	1462.8	1448.2	1436.7	1436.7
10°	1696.2	1700.4	1666.9	1621.9	1559.1	1486.9	1407.4	1335.2	1278.7	1252.5	1246.3
12.5°	1772.6	1774.7	1719.2	1640.7	1537.2	1398.0	1228.4	1070.4	960.6	910.4	905.1
15°	1856.3	1841.6	1768.4	1648.0	1474.4	1214.8	921.9	728.3	614.3	580.7	593.3
17.5°	1941.0	1913.9	1806.0	1636.6	1333.1	921.9	619.5	497.0	461.5	452.0	452.0
20°	2020.6	1982.9	1833.3	1586.3	1088.3	635.1	459.4	430.1	423.8	417.5	418.6
22.5°	2100.1	2042.5	1857.3	1474.4	811.0	454.1	411.2	401.8	393.4	385.1	384.0
25°	2177.5	2098.0	1866.8	1267.1	552.5	390.3	375.7	363.1	346.3	336.9	334.8
27.5°	2258.1	2165.0	1860.5	1005.6	402.8	349.5	334.8	317.1	297.2	280.4	280.4
30°	2413.0	2292.7	1838.5	723.1	339.0	307.6	288.8	260.5	238.6	221.9	220.8
32.5°	2624.3	2459.0	1763.2	508.6	301.3	271.1	242.8	211.3	188.4	175.8	175.8
35°	2812.7	2626.4	1621.9	374.6	271.1	235.4	200.9	170.6	152.8	144.4	141.3
37.5°	3099.4	2871.3	1427.3	304.5	241.7	204.0	168.5	140.2	125.6	119.3	119.3
40°	3529.4	3170.6	1188.7	266.8	213.4	173.7	140.2	118.2	106.7	99.4	99.4
42.5°	4063.1	3536.8	947.0	239.6	187.3	149.6	117.2	100.4	90.0	84.8	83.7
45°	4734.9	3922.9	729.3	214.5	166.3	127.7	99.4	84.8	74.3	71.1	72.2
47.5°	5436.0	4262.9	565.1	192.5	144.4	107.8	84.8	73.3	65.9	61.7	61.7
50°	6034.5	4497.3	429.0	167.4	127.7	91.0	74.3	65.9	59.6	57.5	56.5
52.5°	6534.7	4565.4	328.6	145.4	111.9	78.5	65.9	59.6	54.4	51.3	51.3
55°	6960.5	4505.7	257.4	122.4	94.2	68.0	58.6	53.4	47.1	44.0	42.9
57.5°	7209.6	4314.2	196.7	101.5	76.4	56.5	51.3	45.0	37.7	32.5	32.5
60°	7335.2	4035.9	150.7	83.7	58.6	45.0	41.9	33.5	26.2	22.0	20.9
62.5°	7184.5	3666.5	114.0	65.9	44.0	33.5	28.3	24.1	16.7	12.5	12.5
63°	7091.4	3559.8	109.8	62.8	40.8	31.4	26.2	22.0	14.6	11.5	10.4
65°	6464.6	3094.1	90.0	50.2	32.5	22.0	17.8	15.7	10.4	5.2	4.2
67.5°	5133.5	2366.9	71.1	37.7	23.0	15.7	10.4	9.4	3.1	0.0	0.0
70°	3470.9	1528.8	55.4	27.2	15.7	9.4	5.2	4.2	1.0	0.0	0.0
72.5°	1810.3	783.7	42.9	19.8	9.4	6.3	3.1	1.0	0.0	0.0	0.0
75°	640.4	266.8	31.4	12.5	6.3	3.1	1.0	0.0	0.0	0.0	0.0
77.5°	193.6	99.4	19.8	9.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	68.0	36.6	11.5	6.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.5	17.8	7.3	5.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
85°	18.8	11.5	6.3	5.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	8.4	6.3	5.2	4.2	2.1	1.0	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)