

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: P454300

Luminaire Tested: **GALN-SA5B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454300
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-SA5B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 15380 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

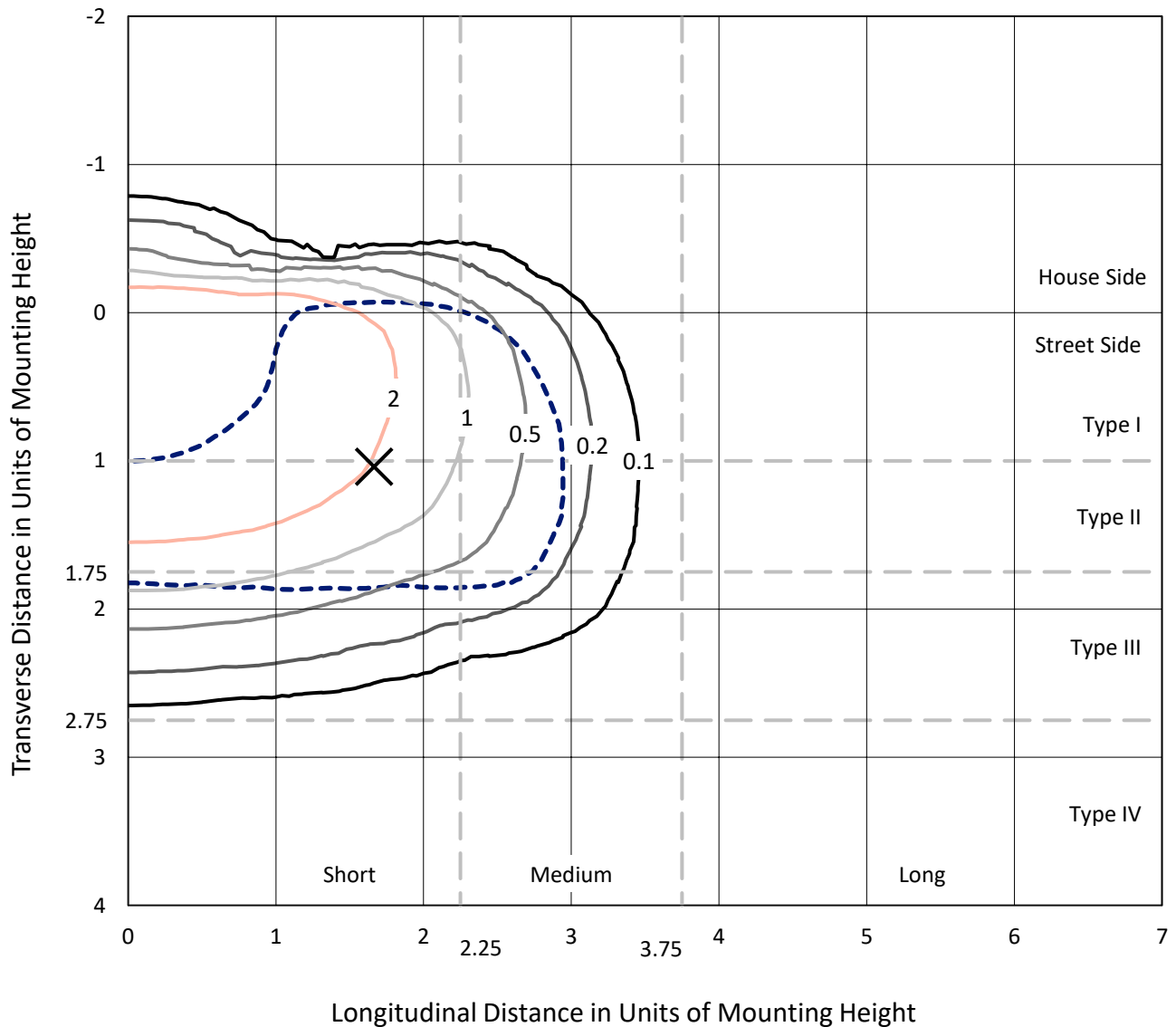
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

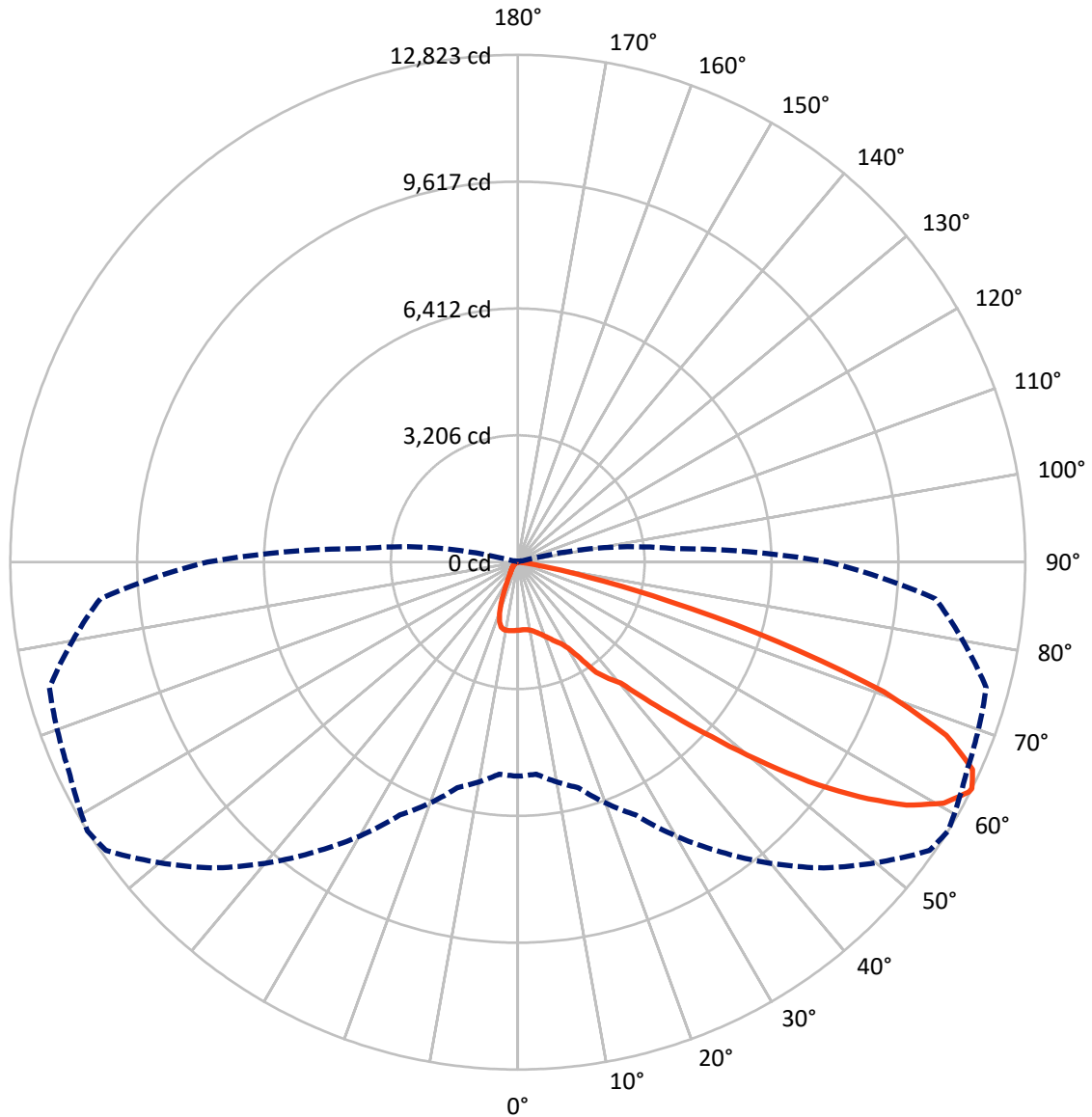
✕ Max cd
 - - - 1/2 Max cd



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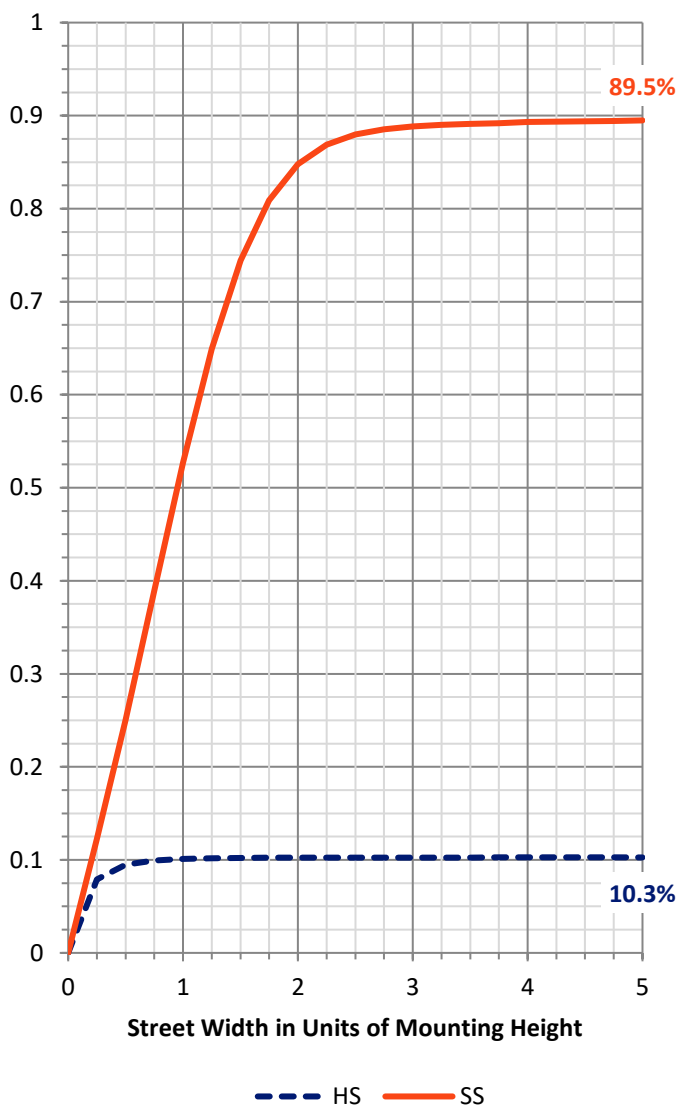
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1592.5	0.0	1592.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13787.5	0.0	13787.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	15380.0	0.0	15380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.0
10°-20°	439.0	2.9
20°-30°	761.9	5.0
30°-40°	1400.2	9.1
40°-50°	2635.8	17.1
50°-60°	4508.3	29.3
60°-70°	4316.7	28.1
70°-80°	1100.8	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°	15380.0	100.0
0°-180°	15380.0	100.0

Coefficient of Utilization



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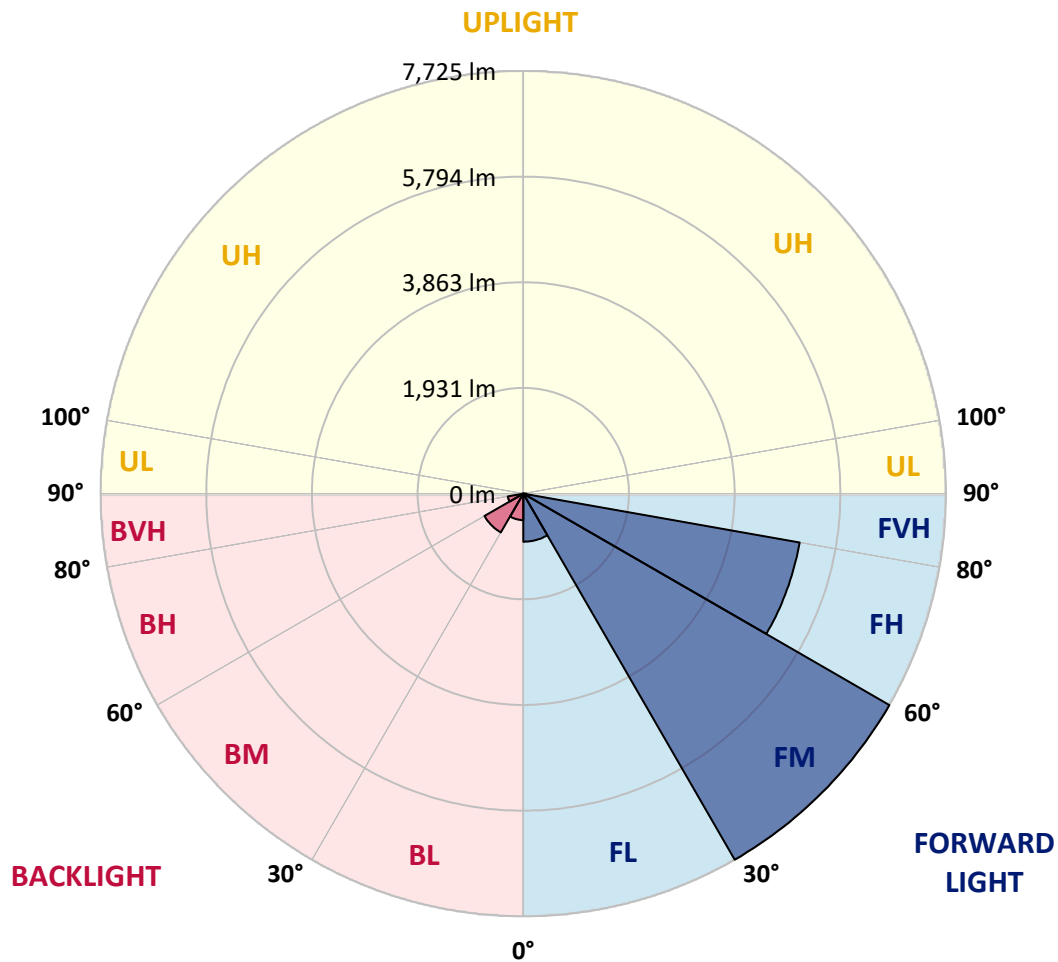
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.2	5.7			
FM (30°-60°)	7725.1	50.2			
FH (60°-80°)	5129.1	33.3			G3/7500
FVH (80°-90°)	54.1	0.4			G1/100
BL (0°-30°)	483.0	3.1	B1/500		
BM (30°-60°)	819.1	5.3	B1/1000		
BH (60°-80°)	288.3	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°	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1679.0	1684.8	1690.6	1692.9	1701.0	1709.1	1714.9	1713.7	1723.0	1727.6	1727.6
5°	1611.8	1611.8	1626.9	1640.8	1664.0	1687.1	1709.1	1713.7	1731.1	1747.3	1753.1
7.5°	1555.1	1558.6	1570.2	1595.6	1626.9	1667.4	1711.4	1721.9	1752.0	1787.9	1802.9
10°	1528.5	1530.8	1545.8	1572.5	1611.8	1667.4	1728.8	1748.5	1794.8	1851.5	1872.4
12.5°	1522.7	1526.2	1541.2	1571.3	1616.5	1683.6	1767.0	1787.9	1855.0	1928.0	1959.2
15°	1533.1	1535.4	1550.5	1582.9	1632.7	1712.6	1818.0	1846.9	1926.8	2011.3	2051.9
17.5°	1570.2	1567.8	1578.3	1604.9	1660.5	1748.5	1879.3	1914.1	2007.9	2123.7	2150.3
20°	1727.6	1712.6	1703.3	1680.2	1702.2	1799.4	1953.4	2004.4	2120.2	2238.3	2256.8
22.5°	2066.9	2033.3	1967.3	1877.0	1807.5	1868.9	2042.6	2101.7	2251.0	2366.8	2366.8
25°	2498.8	2456.0	2390.0	2193.1	2022.9	1983.5	2143.3	2217.4	2393.5	2510.4	2472.2
27.5°	3039.6	3006.0	2877.5	2648.2	2387.7	2183.9	2260.3	2328.6	2519.7	2660.9	2581.0
30°	3479.6	3463.4	3358.0	3153.1	2865.9	2568.3	2478.0	2523.1	2687.6	2850.8	2768.6
32.5°	3851.3	3851.3	3743.6	3552.5	3283.9	3019.9	2847.4	2879.8	3037.3	3226.0	3073.2
35°	4260.0	4246.2	4159.3	3977.5	3676.4	3443.7	3373.1	3417.1	3559.5	3699.6	3323.3
37.5°	4689.6	4685.0	4594.7	4418.7	4173.2	3880.2	3714.7	3726.2	3799.2	3884.9	3616.2
40°	5156.3	5163.2	5045.1	4936.3	4704.7	4404.8	4087.5	4014.6	4082.9	4324.9	4157.0
42.5°	5707.5	5691.3	5640.3	5492.1	5305.7	5126.2	4745.2	4718.6	4778.8	5038.2	4856.4
45°	6347.8	6371.0	6283.0	6200.7	6075.7	5926.3	5607.9	5561.6	5627.6	6030.5	5772.3
47.5°	6989.3	6967.3	7024.0	7009.0	7076.1	6965.0	6683.6	6588.7	6747.3	7129.4	6749.6
50°	7477.9	7502.3	7620.4	7792.9	8081.2	8143.8	7874.0	7841.5	7912.2	8157.7	7623.8
52.5°	7795.2	7876.3	8061.5	8505.0	9025.0	9429.1	9224.1	9206.7	9177.8	9243.8	8459.9
55°	8002.5	8084.7	8326.7	8979.8	9874.9	10531.4	10541.8	10467.7	10276.7	10229.2	9241.5
57.5°	7875.1	7891.3	8236.4	9109.5	10346.2	11317.7	11658.1	11584.0	11230.8	11051.3	9931.6
60°	7078.5	7112.0	7592.6	8618.5	10141.2	11574.7	12398.0	12364.4	11977.7	11775.0	10468.9
62.5°	5666.9	5764.2	6258.6	7402.7	9188.2	11141.7	12697.9	12792.9	12491.8	12212.7	10638.0
63°	5407.6	5376.3	5898.5	7048.4	8935.8	10927.4	12702.6	12823.0	12515.0	12254.4	10591.6
65°	4003.0	4096.8	4436.1	5558.1	7436.3	9930.5	12416.5	12629.6	12429.3	12070.3	10078.7
67.5°	2247.6	2242.9	2618.1	3637.1	5204.9	7789.4	11227.3	11677.8	11636.1	10831.3	8354.5
70°	1100.0	1117.4	1271.4	1885.1	3018.7	5374.0	9329.5	9815.8	9830.9	8507.4	5776.9
72.5°	497.9	506.0	616.0	918.2	1551.6	2861.3	6428.9	6893.2	6807.5	5421.5	3190.1
75°	262.9	280.2	339.3	462.0	748.0	1179.9	3497.0	3946.2	3766.8	2476.8	1174.1
77.5°	194.5	200.3	230.4	294.1	400.6	459.7	1508.8	1794.8	1681.3	896.2	389.1
80°	142.4	147.1	171.4	208.4	252.4	233.9	568.5	651.9	584.8	304.5	119.3
82.5°	86.8	88.0	125.1	155.2	158.6	130.8	187.6	201.5	210.7	171.4	64.8
85°	31.3	39.4	84.5	112.3	93.8	66.0	78.7	86.8	95.0	108.8	38.2
87.5°	3.5	4.6	40.5	54.4	26.6	24.3	28.9	32.4	34.7	40.5	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°	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1732.3	1736.9	1733.4	1727.6	1726.5	1723.0	1716.1	1716.1	1716.1	1718.4	1716.1
5°	1757.7	1761.2	1753.1	1741.5	1728.8	1712.6	1695.2	1684.8	1683.6	1681.3	1675.5
7.5°	1806.4	1811.0	1792.5	1764.7	1730.0	1690.6	1653.5	1618.8	1602.6	1589.8	1589.8
10°	1877.0	1881.6	1844.6	1794.8	1725.3	1645.4	1557.4	1477.5	1415.0	1386.0	1379.1
12.5°	1961.5	1963.9	1902.5	1815.6	1701.0	1547.0	1359.4	1184.6	1063.0	1007.4	1001.6
15°	2054.2	2038.0	1956.9	1823.7	1631.5	1344.4	1020.1	805.9	679.7	642.7	656.5
17.5°	2148.0	2117.9	1998.6	1811.0	1475.2	1020.1	685.5	550.0	510.6	500.2	500.2
20°	2236.0	2194.3	2028.7	1755.4	1204.3	702.9	508.3	475.9	469.0	462.0	463.2
22.5°	2324.0	2260.3	2055.3	1631.5	897.4	502.5	455.1	444.6	435.4	426.1	425.0
25°	2409.7	2321.7	2065.8	1402.3	611.4	431.9	415.7	401.8	383.3	372.9	370.5
27.5°	2498.8	2395.8	2058.8	1112.8	445.8	386.8	370.5	350.9	328.9	310.3	310.3
30°	2670.2	2537.0	2034.5	800.1	375.2	340.4	319.6	288.3	264.0	245.5	244.3
32.5°	2904.1	2721.1	1951.1	562.8	333.5	299.9	268.6	233.9	208.4	194.5	194.5
35°	3112.5	2906.4	1794.8	414.5	299.9	260.5	222.3	188.7	169.1	159.8	156.3
37.5°	3429.8	3177.4	1579.4	337.0	267.5	225.8	186.4	155.2	139.0	132.0	132.0
40°	3905.7	3508.5	1315.4	295.3	236.2	192.2	155.2	130.8	118.1	110.0	110.0
42.5°	4496.3	3913.8	1047.9	265.2	207.3	165.6	129.7	111.2	99.6	93.8	92.6
45°	5239.7	4341.1	807.1	237.4	184.1	141.3	110.0	93.8	82.2	78.7	79.9
47.5°	6015.5	4717.4	625.3	213.1	159.8	119.3	93.8	81.1	72.9	68.3	68.3
50°	6677.8	4976.8	474.8	185.3	141.3	100.7	82.2	72.9	66.0	63.7	62.5
52.5°	7231.3	5052.1	363.6	161.0	123.9	86.8	72.9	66.0	60.2	56.7	56.7
55°	7702.6	4986.1	284.9	135.5	104.2	75.3	64.8	59.1	52.1	48.6	47.5
57.5°	7978.2	4774.2	217.7	112.3	84.5	62.5	56.7	49.8	41.7	35.9	35.9
60°	8117.1	4466.2	166.7	92.6	64.8	49.8	46.3	37.1	28.9	24.3	23.2
62.5°	7950.4	4057.4	126.2	72.9	48.6	37.1	31.3	26.6	18.5	13.9	13.9
63°	7847.3	3939.3	121.6	69.5	45.2	34.7	28.9	24.3	16.2	12.7	11.6
65°	7153.7	3424.0	99.6	55.6	35.9	24.3	19.7	17.4	11.6	5.8	4.6
67.5°	5680.8	2619.3	78.7	41.7	25.5	17.4	11.6	10.4	3.5	0.0	0.0
70°	3840.9	1691.7	61.4	30.1	17.4	10.4	5.8	4.6	1.2	0.0	0.0
72.5°	2003.2	867.3	47.5	22.0	10.4	6.9	3.5	1.2	0.0	0.0	0.0
75°	708.7	295.3	34.7	13.9	6.9	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	214.2	110.0	22.0	10.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	75.3	40.5	12.7	6.9	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°	20.8	12.7	6.9	5.8	3.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	9.3	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)