

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: P454329

Luminaire Tested: **GALN-SA5B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454329
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-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 16625 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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

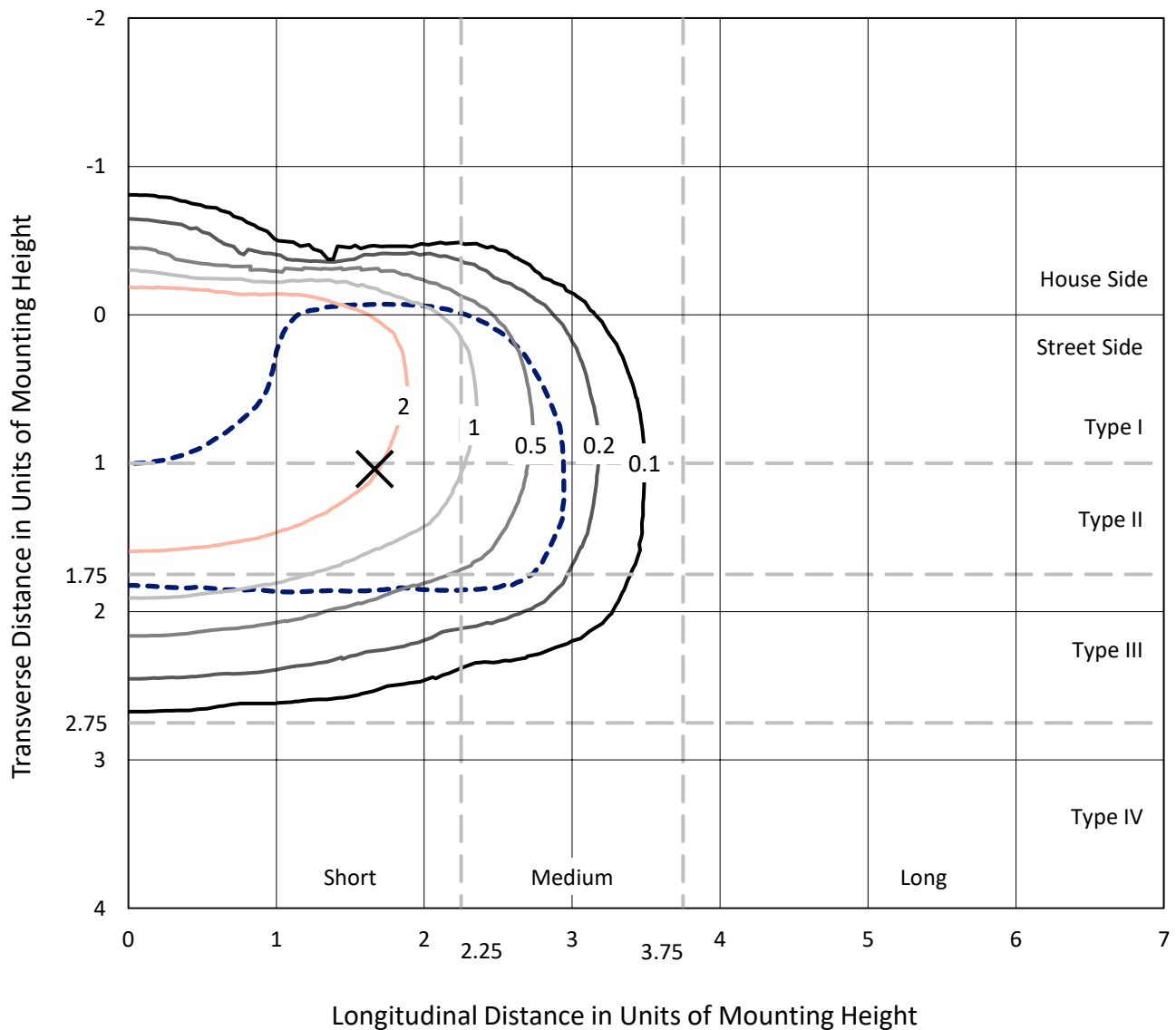


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

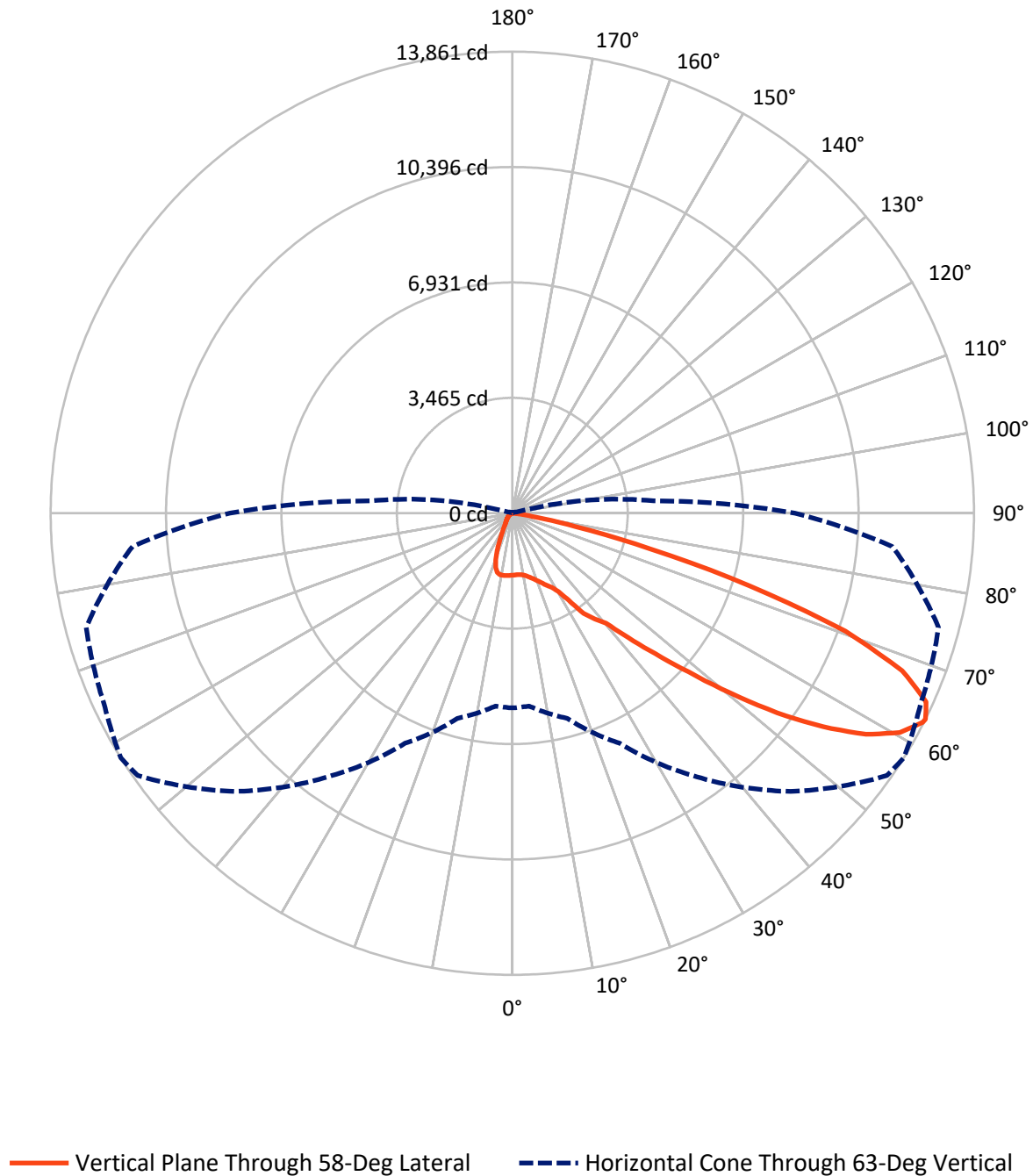


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1721.4	0.0	1721.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14903.6	0.0	14903.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	16625.0	0.0	16625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.0
10°-20°	474.6	2.9
20°-30°	823.6	5.0
30°-40°	1513.5	9.1
40°-50°	2849.1	17.1
50°-60°	4873.2	29.3
60°-70°	4666.1	28.1
70°-80°	1189.9	7.2
80°-90°	60.8	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°	16625.0	100.0
0°-180°	16625.0	100.0

Coefficient of Utilization



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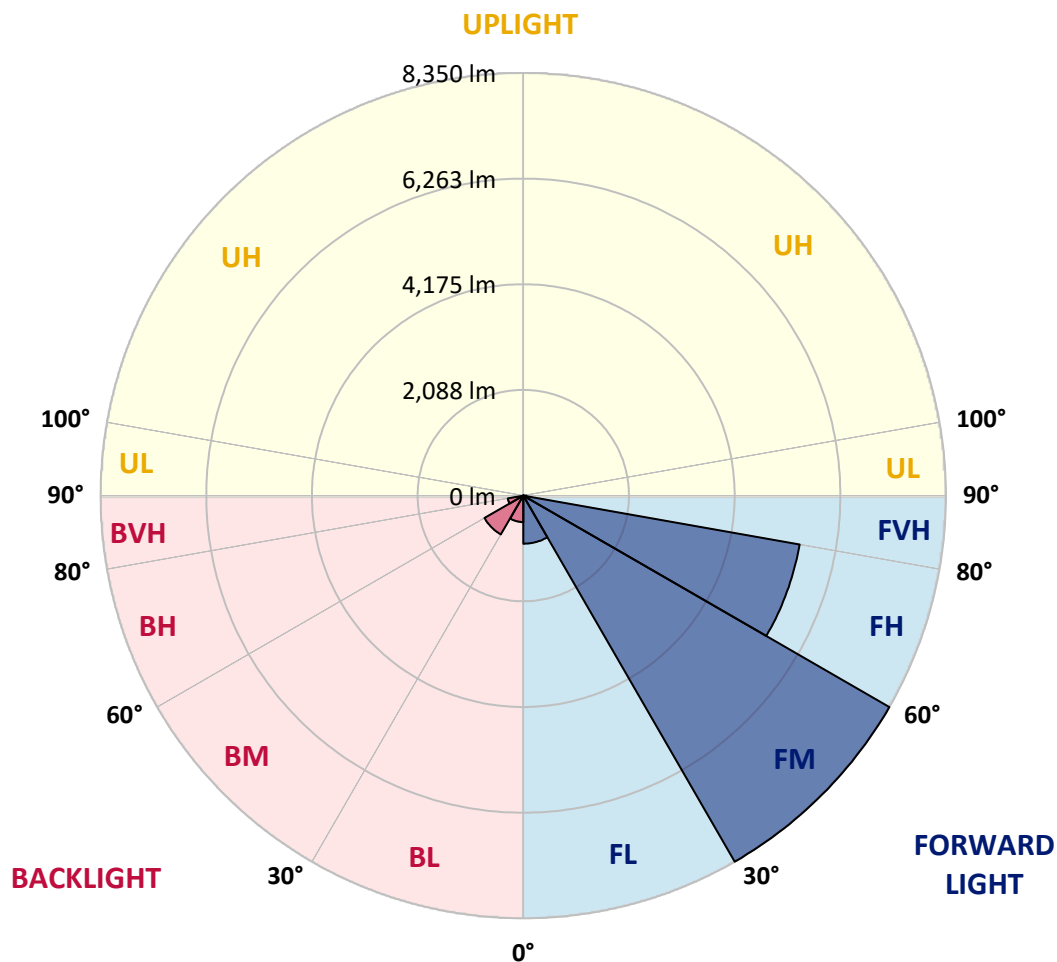
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.4	5.7			
FM	(30°-60°)	8350.4	50.2			
FH	(60°-80°)	5544.3	33.3			G3/7500
FVH	(80°-90°)	58.5	0.4			G1/100
BL	(0°-30°)	522.1	3.1	B2/1000		
BM	(30°-60°)	885.4	5.3	B1/1000		
BH	(60°-80°)	311.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2
2.5°	1814.9	1821.2	1827.4	1829.9	1838.7	1847.5	1853.7	1852.5	1862.5	1867.5	1867.5
5°	1742.3	1742.3	1758.6	1773.6	1798.6	1823.7	1847.5	1852.5	1871.2	1888.8	1895.0
7.5°	1681.0	1684.7	1697.3	1724.8	1758.6	1802.4	1850.0	1861.2	1893.8	1932.6	1948.8
10°	1652.2	1654.7	1671.0	1699.8	1742.3	1802.4	1868.7	1890.0	1940.1	2001.4	2024.0
12.5°	1645.9	1649.7	1666.0	1698.5	1747.3	1819.9	1910.0	1932.6	2005.2	2084.0	2117.8
15°	1657.2	1659.7	1676.0	1711.0	1764.9	1851.2	1965.1	1996.4	2082.8	2174.2	2218.0
17.5°	1697.3	1694.8	1706.0	1734.8	1794.9	1890.0	2031.5	2069.0	2170.4	2295.6	2324.4
20°	1867.5	1851.2	1841.2	1816.2	1840.0	1945.1	2111.6	2166.6	2291.8	2419.5	2439.5
22.5°	2234.2	2197.9	2126.6	2029.0	1953.9	2020.2	2207.9	2271.8	2433.2	2558.4	2558.4
25°	2701.1	2654.8	2583.4	2370.7	2186.7	2144.1	2316.8	2396.9	2587.2	2713.6	2672.3
27.5°	3285.6	3249.3	3110.4	2862.6	2580.9	2360.6	2443.3	2517.1	2723.6	2876.3	2790.0
30°	3761.3	3743.7	3629.8	3408.3	3097.9	2776.2	2678.6	2727.4	2905.1	3081.6	2992.7
32.5°	4163.1	4163.1	4046.6	3840.1	3549.7	3264.4	3077.9	3112.9	3283.1	3487.2	3321.9
35°	4604.9	4589.9	4496.0	4299.5	3974.1	3722.5	3646.1	3693.7	3847.6	3999.1	3592.3
37.5°	5069.3	5064.3	4966.6	4776.4	4511.0	4194.3	4015.4	4027.9	4106.7	4199.4	3909.0
40°	5573.7	5581.2	5453.5	5335.9	5085.5	4761.4	4418.4	4339.5	4413.4	4675.0	4493.5
42.5°	6169.5	6152.0	6096.9	5936.7	5735.2	5541.1	5129.3	5100.6	5165.6	5446.0	5249.5
45°	6861.7	6886.7	6791.6	6702.7	6567.5	6406.0	6061.8	6011.8	6083.1	6518.7	6239.6
47.5°	7555.1	7531.3	7592.6	7576.4	7649.0	7528.8	7224.6	7122.0	7293.5	7706.5	7296.0
50°	8083.3	8109.6	8237.2	8423.7	8735.4	8803.0	8511.4	8476.3	8552.7	8818.0	8241.0
52.5°	8426.2	8513.9	8714.1	9193.5	9755.5	10192.3	9970.8	9952.0	9920.7	9992.1	9144.7
55°	8650.3	8739.2	9000.8	9706.7	10674.2	11383.9	11395.2	11315.1	11108.6	11057.3	9989.6
57.5°	8512.6	8530.1	8903.1	9846.9	11183.7	12233.8	12601.8	12521.7	12139.9	11945.9	10735.6
60°	7651.5	7687.8	8207.2	9316.2	10962.1	12511.7	13401.6	13365.3	12947.3	12728.2	11316.3
62.5°	6125.7	6230.8	6765.3	8001.9	9932.0	12043.6	13725.8	13828.4	13503.0	13201.4	11499.1
63°	5845.3	5811.5	6376.0	7618.9	9659.1	11812.0	13730.8	13861.0	13528.0	13246.4	11449.0
65°	4327.0	4428.4	4795.1	6008.0	8038.2	10734.3	13421.7	13652.0	13435.4	13047.4	10894.5
67.5°	2429.5	2424.5	2830.0	3931.5	5626.3	8420.0	12136.2	12623.1	12578.0	11708.1	9030.8
70°	1189.1	1207.9	1374.3	2037.7	3263.1	5809.0	10084.7	10610.4	10626.7	9196.0	6244.6
72.5°	538.2	547.0	665.9	992.6	1677.2	3092.9	6949.3	7451.2	7358.6	5860.3	3448.4
75°	284.1	302.9	366.7	499.4	808.6	1275.5	3780.0	4265.7	4071.7	2677.3	1269.2
77.5°	210.3	216.5	249.1	317.9	433.1	496.9	1630.9	1940.1	1817.4	968.8	420.6
80°	154.0	159.0	185.2	225.3	272.9	252.8	614.6	704.7	632.1	329.2	128.9
82.5°	93.9	95.1	135.2	167.7	171.5	141.4	202.8	217.8	227.8	185.2	70.1
85°	33.8	42.6	91.4	121.4	101.4	71.3	85.1	93.9	102.6	117.7	41.3
87.5°	3.8	5.0	43.8	58.8	28.8	26.3	31.3	35.0	37.6	43.8	20.0
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°	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2	1861.2
2.5°	1872.5	1877.5	1873.7	1867.5	1866.2	1862.5	1855.0	1855.0	1855.0	1857.5	1855.0
5°	1900.0	1903.8	1895.0	1882.5	1868.7	1851.2	1832.4	1821.2	1819.9	1817.4	1811.2
7.5°	1952.6	1957.6	1937.6	1907.5	1870.0	1827.4	1787.4	1749.8	1732.3	1718.5	1718.5
10°	2029.0	2034.0	1993.9	1940.1	1865.0	1778.6	1683.5	1597.1	1529.5	1498.2	1490.7
12.5°	2120.3	2122.8	2056.5	1962.6	1838.7	1672.2	1469.5	1280.5	1149.0	1089.0	1082.7
15°	2220.5	2202.9	2115.3	1971.4	1763.6	1453.2	1102.7	871.2	734.7	694.7	709.7
17.5°	2321.8	2289.3	2160.4	1957.6	1594.6	1102.7	741.0	594.5	552.0	540.7	540.7
20°	2417.0	2371.9	2192.9	1897.5	1301.7	759.8	549.5	514.4	506.9	499.4	500.7
22.5°	2512.1	2443.3	2221.7	1763.6	970.0	543.2	491.9	480.6	470.6	460.6	459.4
25°	2604.7	2509.6	2233.0	1515.8	660.9	466.9	449.3	434.3	414.3	403.0	400.5
27.5°	2701.1	2589.7	2225.5	1202.9	481.9	418.1	400.5	379.3	355.5	335.4	335.4
30°	2886.4	2742.4	2199.2	864.9	405.5	368.0	345.5	311.7	285.4	265.4	264.1
32.5°	3139.2	2941.4	2109.1	608.3	360.5	324.2	290.4	252.8	225.3	210.3	210.3
35°	3364.5	3141.7	1940.1	448.1	324.2	281.6	240.3	204.0	182.7	172.7	169.0
37.5°	3707.4	3434.6	1707.3	364.2	289.1	244.1	201.5	167.7	150.2	142.7	142.7
40°	4221.9	3792.6	1421.9	319.2	255.3	207.8	167.7	141.4	127.7	118.9	118.9
42.5°	4860.2	4230.6	1132.8	286.6	224.0	179.0	140.2	120.2	107.6	101.4	100.1
45°	5663.8	4692.5	872.4	256.6	199.0	152.7	118.9	101.4	88.9	85.1	86.4
47.5°	6502.4	5099.3	675.9	230.3	172.7	128.9	101.4	87.6	78.9	73.8	73.8
50°	7218.4	5379.7	513.2	200.3	152.7	108.9	88.9	78.9	71.3	68.8	67.6
52.5°	7816.7	5461.0	393.0	174.0	133.9	93.9	78.9	71.3	65.1	61.3	61.3
55°	8326.1	5389.7	307.9	146.4	112.7	81.4	70.1	63.8	56.3	52.6	51.3
57.5°	8624.0	5160.6	235.3	121.4	91.4	67.6	61.3	53.8	45.1	38.8	38.8
60°	8774.2	4827.7	180.2	100.1	70.1	53.8	50.1	40.1	31.3	26.3	25.0
62.5°	8594.0	4385.9	136.4	78.9	52.6	40.1	33.8	28.8	20.0	15.0	15.0
63°	8482.6	4258.2	131.4	75.1	48.8	37.6	31.3	26.3	17.5	13.8	12.5
65°	7732.8	3701.2	107.6	60.1	38.8	26.3	21.3	18.8	12.5	6.3	5.0
67.5°	6140.7	2831.3	85.1	45.1	27.5	18.8	12.5	11.3	3.8	0.0	0.0
70°	4151.8	1828.7	66.3	32.5	18.8	11.3	6.3	5.0	1.3	0.0	0.0
72.5°	2165.4	937.5	51.3	23.8	11.3	7.5	3.8	1.3	0.0	0.0	0.0
75°	766.0	319.2	37.6	15.0	7.5	3.8	1.3	0.0	0.0	0.0	0.0
77.5°	231.6	118.9	23.8	11.3	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	81.4	43.8	13.8	7.5	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.1	21.3	8.8	6.3	3.8	1.3	0.0	0.0	0.0	0.0	0.0
85°	22.5	13.8	7.5	6.3	3.8	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	10.0	7.5	6.3	5.0	2.5	1.3	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)