

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: P458917

Luminaire Tested: **GALN-SA4B-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15169 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

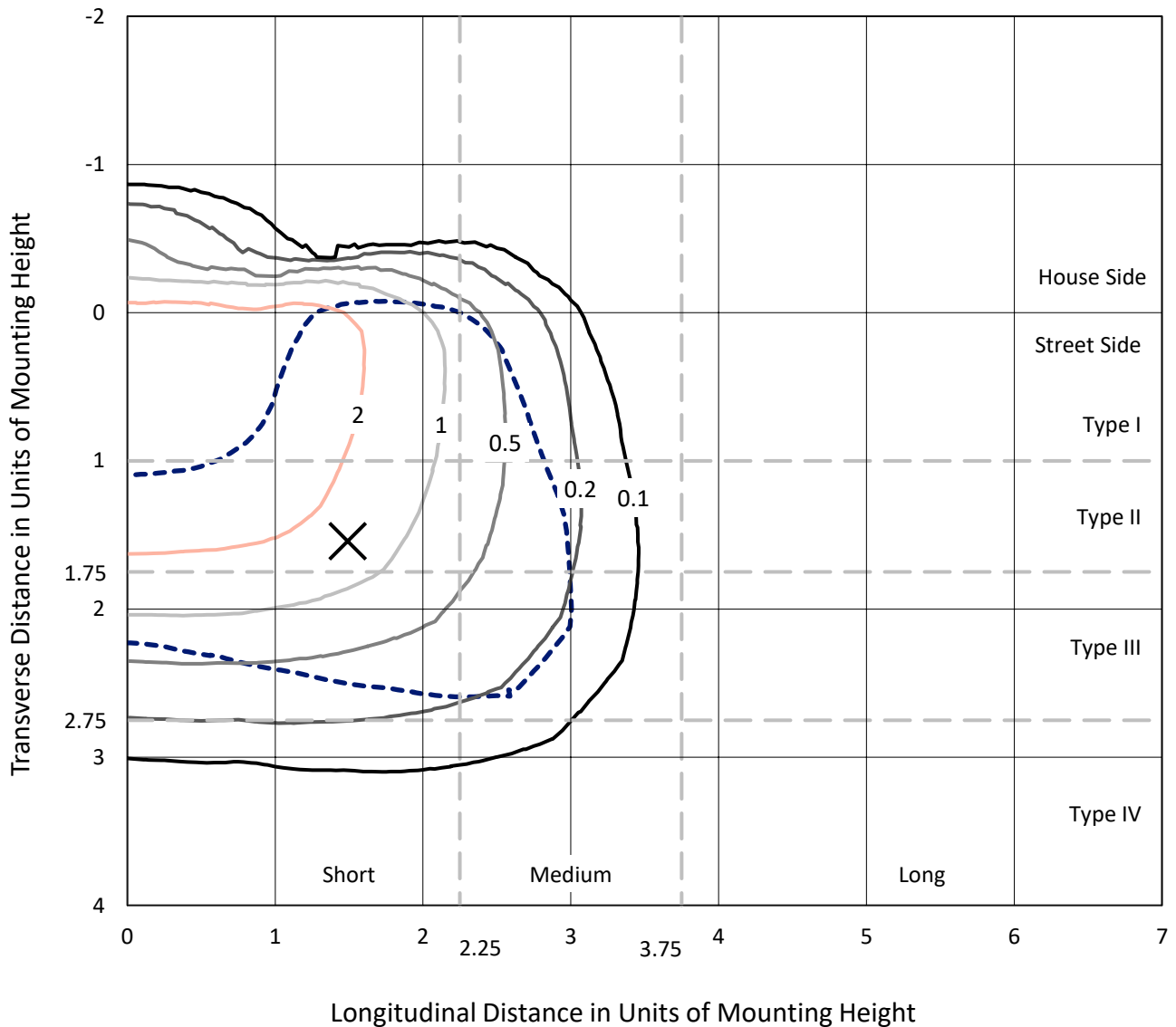
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

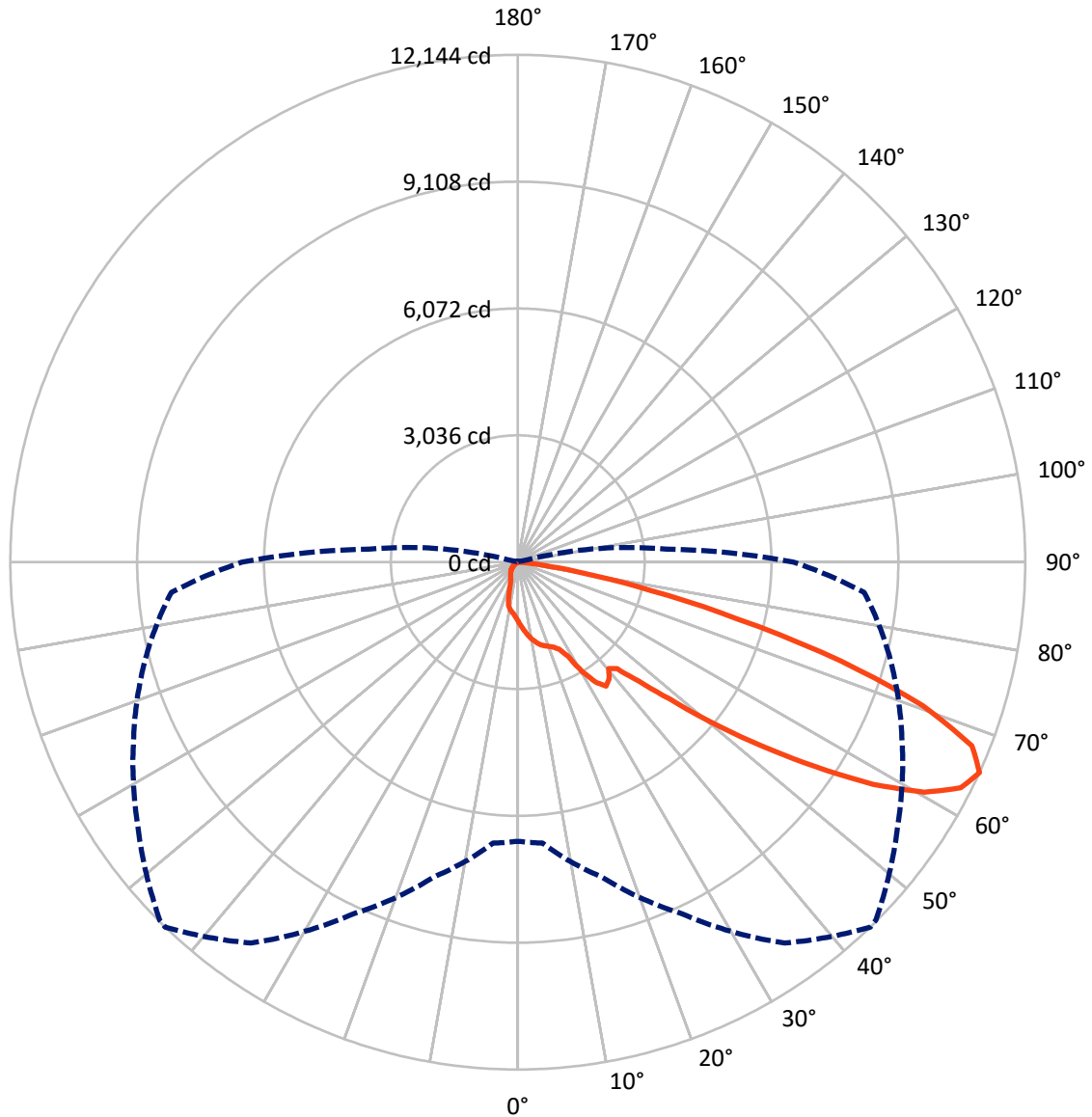
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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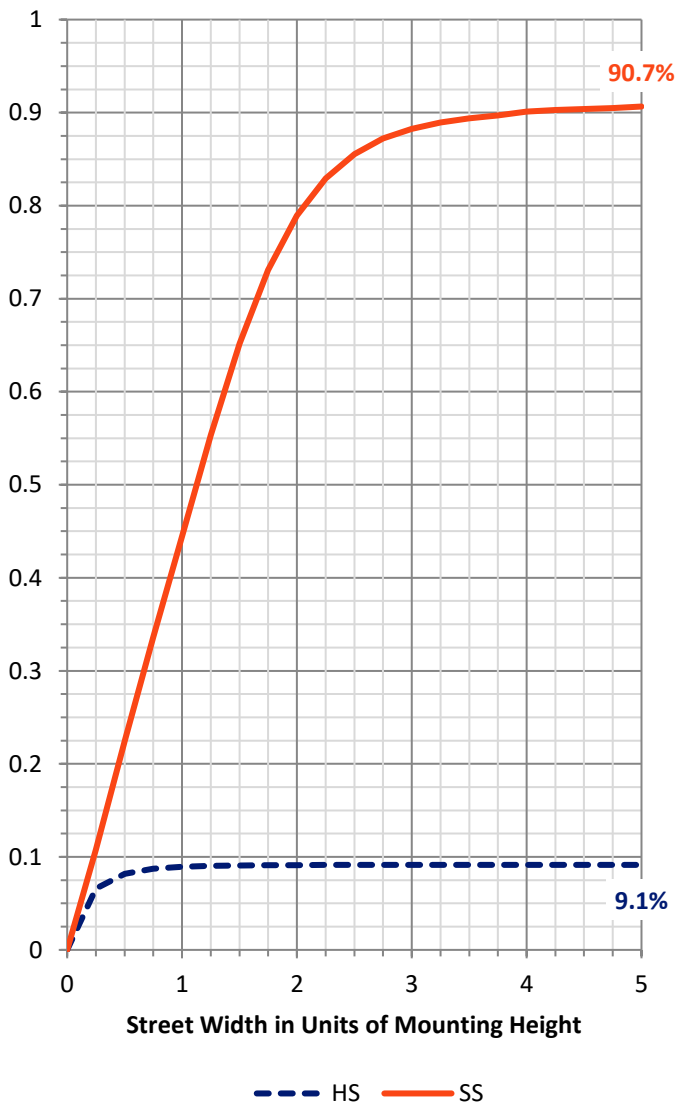
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.6	0.0	1397.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	13771.4	0.0	13771.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	15169.0	0.0	15169.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	0.9
10°-20°	422.6	2.8
20°-30°	716.6	4.7
30°-40°	1191.4	7.9
40°-50°	2080.3	13.7
50°-60°	4064.2	26.8
60°-70°	4715.4	31.1
70°-80°	1717.1	11.3
80°-90°	121.0	0.8
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°	15169.0	100.0
0°-180°	15169.0	100.0



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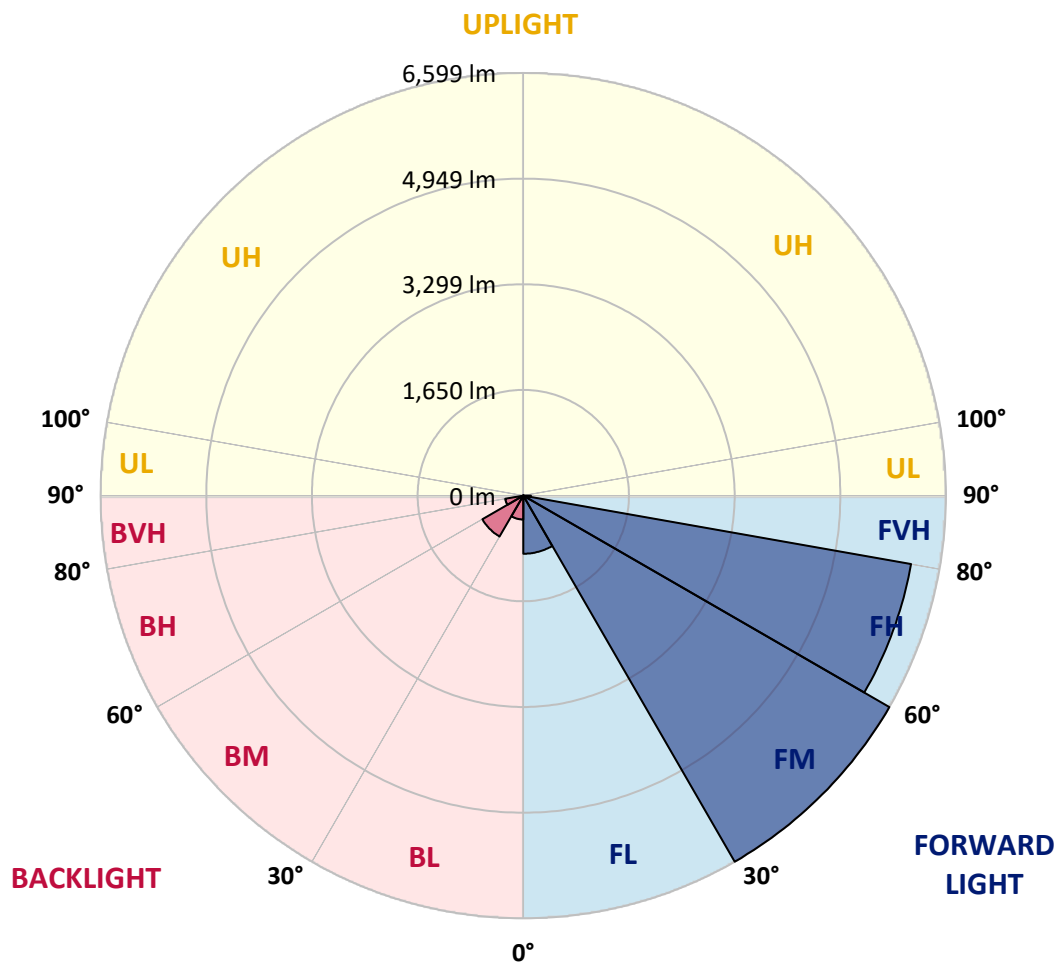
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.2	6.0			
FM (30°-60°)	6598.5	43.5			
FH (60°-80°)	6146.3	40.5			G3/7500
FVH (80°-90°)	119.3	0.8			G2/225
BL (0°-30°)	372.4	2.5	B1/500		
BM (30°-60°)	737.4	4.9	B1/1000		
BH (60°-80°)	286.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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°	44°	45°	55°	65°	75°	85°
0°	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1589.1	1582.2	1578.7	1560.1	1546.2	1528.9	1528.9	1506.8	1481.3	1453.5	1428.0
5°	1766.5	1754.9	1739.8	1723.6	1691.1	1644.8	1644.8	1598.4	1545.1	1497.6	1445.4
7.5°	1936.9	1926.4	1900.9	1869.6	1816.3	1767.6	1764.1	1696.9	1633.2	1561.3	1487.1
10°	2086.4	2078.3	2056.2	1996.0	1940.3	1876.6	1875.4	1800.1	1725.9	1637.8	1546.2
12.5°	2190.7	2191.9	2162.9	2104.9	2033.1	1972.8	1968.1	1894.0	1816.3	1721.3	1608.8
15°	2264.9	2264.9	2234.7	2169.8	2104.9	2051.6	2047.0	1982.1	1902.1	1798.9	1677.2
17.5°	2285.7	2292.7	2260.2	2202.3	2150.1	2103.8	2102.6	2048.1	1984.4	1884.7	1746.8
20°	2277.6	2284.6	2259.1	2213.9	2177.9	2151.3	2147.8	2125.8	2066.7	1972.8	1820.9
22.5°	2260.2	2267.2	2248.7	2222.0	2204.6	2212.7	2206.9	2225.5	2194.2	2080.6	1909.0
25°	2263.7	2270.7	2256.8	2241.7	2256.8	2306.6	2321.7	2401.7	2373.8	2217.4	2004.1
27.5°	2372.7	2386.6	2366.9	2373.8	2427.2	2543.1	2572.0	2710.0	2587.1	2391.2	2152.4
30°	2614.9	2605.7	2568.6	2602.2	2787.6	3033.4	3025.2	3003.2	2810.8	2591.7	2328.6
32.5°	2835.2	2827.0	2824.7	2969.6	3305.7	3425.1	3419.3	3206.1	3011.3	2821.2	2502.5
35°	2924.4	2893.1	2886.2	3237.4	3799.5	3641.9	3606.0	3289.5	3254.7	3071.6	2679.8
37.5°	3193.3	3171.3	3063.5	3281.4	3602.5	3550.3	3522.5	3433.2	3514.4	3293.0	2880.4
40°	3747.4	3685.9	3588.6	3375.3	3323.1	3345.2	3373.0	3617.5	3821.5	3595.5	3148.1
42.5°	4435.9	4422.0	4241.1	3843.6	3453.0	3483.1	3519.0	4002.4	4263.2	4051.0	3585.1
45°	5262.3	5282.0	5021.2	4551.8	4039.5	4065.0	4117.1	4570.3	4861.3	4759.3	4272.4
47.5°	6013.4	5998.3	5910.2	5422.3	4949.3	4892.6	4977.2	5299.4	5688.9	5705.1	5125.5
50°	6769.1	6849.1	6718.1	6526.9	6175.7	6056.3	6025.0	6182.6	6776.1	6698.4	6150.2
52.5°	7855.2	7896.9	7651.2	7602.5	7682.5	7295.4	7264.1	7302.3	7833.2	7566.6	6917.5
55°	8537.9	8513.6	8422.0	8802.2	9118.6	8635.3	8595.9	8441.7	8710.6	8179.8	7655.8
57.5°	8753.5	8788.3	9001.6	9688.9	10437.7	10027.4	9955.5	9517.4	9343.5	8751.2	8335.1
60°	8657.3	8721.1	9181.2	10203.5	11242.1	11180.7	11119.2	10383.2	9797.9	9228.7	8811.5
62.5°	7972.3	8061.5	8797.6	10112.0	11514.5	11898.1	11821.6	10923.3	10100.4	9460.6	8894.9
65°	6681.0	6747.1	7804.2	9280.9	11127.3	12143.9	12116.1	11092.6	10147.9	9248.4	8323.5
67.5°	4762.7	4987.6	5967.0	7821.6	9982.2	11724.3	11771.8	10889.7	9701.7	8331.6	6893.2
70°	2994.0	3147.0	3849.4	5599.6	8002.4	10285.8	10442.3	9961.3	8419.7	6494.4	4614.4
72.5°	1428.0	1541.6	2042.3	3544.5	5648.3	8092.8	8216.8	8177.4	6510.7	4091.6	2380.8
75°	636.3	679.2	974.8	1809.4	3646.5	5439.6	5760.7	5814.0	4068.4	2001.8	926.1
77.5°	324.5	325.7	456.7	876.3	1820.9	3245.5	3309.2	3495.8	2205.8	882.1	322.2
80°	172.7	184.3	242.3	413.8	944.7	1598.4	1590.3	1747.9	978.3	432.3	107.8
82.5°	77.7	85.8	136.8	216.8	461.3	606.2	653.7	715.2	419.6	275.9	47.5
85°	23.2	27.8	67.2	109.0	166.9	175.0	195.9	252.7	237.6	195.9	24.3
87.5°	3.5	3.5	27.8	30.1	24.3	31.3	32.5	35.9	76.5	71.9	12.8
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°	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1414.1	1406.0	1377.0	1352.7	1331.8	1319.1	1304.0	1294.7	1290.1	1286.6	1287.8
5°	1419.9	1400.2	1350.3	1310.9	1280.8	1248.3	1226.3	1213.6	1207.8	1198.5	1198.5
7.5°	1452.3	1421.1	1351.5	1291.2	1239.1	1195.0	1153.3	1138.2	1127.8	1125.5	1123.2
10°	1498.7	1459.3	1364.3	1280.8	1206.6	1146.3	1087.2	1035.1	994.5	970.2	966.7
12.5°	1556.7	1499.9	1384.0	1273.8	1178.8	1072.2	915.7	810.2	739.5	717.5	721.0
15°	1610.0	1548.6	1403.7	1268.1	1127.8	889.0	711.7	591.1	555.2	551.7	552.9
17.5°	1673.7	1600.7	1426.8	1259.9	987.6	679.2	528.5	496.1	503.0	514.6	513.5
20°	1739.8	1656.4	1454.7	1211.3	788.2	511.2	467.1	470.6	481.0	491.5	493.8
22.5°	1810.5	1720.1	1487.1	1094.2	601.6	445.1	442.8	447.4	457.8	469.4	471.8
25°	1907.9	1800.1	1511.5	941.2	455.5	411.5	416.1	424.2	433.5	446.3	448.6
27.5°	2033.1	1907.9	1524.2	741.8	394.1	381.3	382.5	394.1	405.7	417.3	417.3
30°	2195.3	2036.5	1498.7	561.0	364.0	352.4	347.7	354.7	369.8	381.3	382.5
32.5°	2340.2	2158.2	1431.5	428.9	341.9	325.7	314.1	315.3	321.1	328.0	329.2
35°	2485.1	2276.5	1316.7	360.5	318.8	300.2	282.8	273.5	268.9	265.4	268.9
37.5°	2670.6	2423.7	1163.7	328.0	299.0	275.9	251.5	231.8	215.6	205.2	207.5
40°	2909.3	2627.7	982.9	307.2	280.5	252.7	220.2	194.7	166.9	157.6	153.0
42.5°	3303.4	2937.2	792.8	289.8	262.0	228.3	187.8	153.0	127.5	118.2	120.5
45°	3925.9	3327.8	610.8	271.2	243.4	201.7	157.6	120.5	99.7	95.0	97.4
47.5°	4751.1	3833.1	470.6	250.4	220.2	172.7	124.0	95.0	82.3	81.1	80.0
50°	5527.7	4303.7	392.9	227.2	192.4	143.7	102.0	80.0	71.9	70.7	70.7
52.5°	6230.2	4641.0	319.9	200.5	162.3	118.2	85.8	70.7	63.8	60.3	60.3
55°	6854.9	4861.3	259.6	168.1	127.5	93.9	74.2	63.8	55.6	51.0	49.8
57.5°	7326.7	4887.9	194.7	134.5	95.0	73.0	63.8	55.6	46.4	40.6	38.3
60°	7528.3	4657.3	143.7	102.0	70.7	58.0	51.0	45.2	34.8	29.0	27.8
62.5°	7325.5	4208.7	106.6	77.7	54.5	42.9	35.9	33.6	24.3	17.4	16.2
65°	6598.7	3560.7	84.6	59.1	40.6	31.3	23.2	22.0	15.1	8.1	7.0
67.5°	5286.6	2788.8	67.2	44.0	29.0	20.9	15.1	13.9	8.1	2.3	2.3
70°	3437.9	1782.7	54.5	32.5	18.5	13.9	9.3	7.0	4.6	1.2	0.0
72.5°	1700.4	833.4	44.0	25.5	12.8	7.0	3.5	2.3	3.5	0.0	0.0
75°	659.5	296.7	32.5	17.4	7.0	3.5	2.3	0.0	1.2	0.0	0.0
77.5°	219.1	98.5	19.7	9.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	81.1	38.3	10.4	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	32.5	15.1	7.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	9.3	4.6	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	7.0	4.6	3.5	2.3	1.2	0.0	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)