

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: P459004

Luminaire Tested: **GALN-SA5A-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459004
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-SA5A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 15433 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

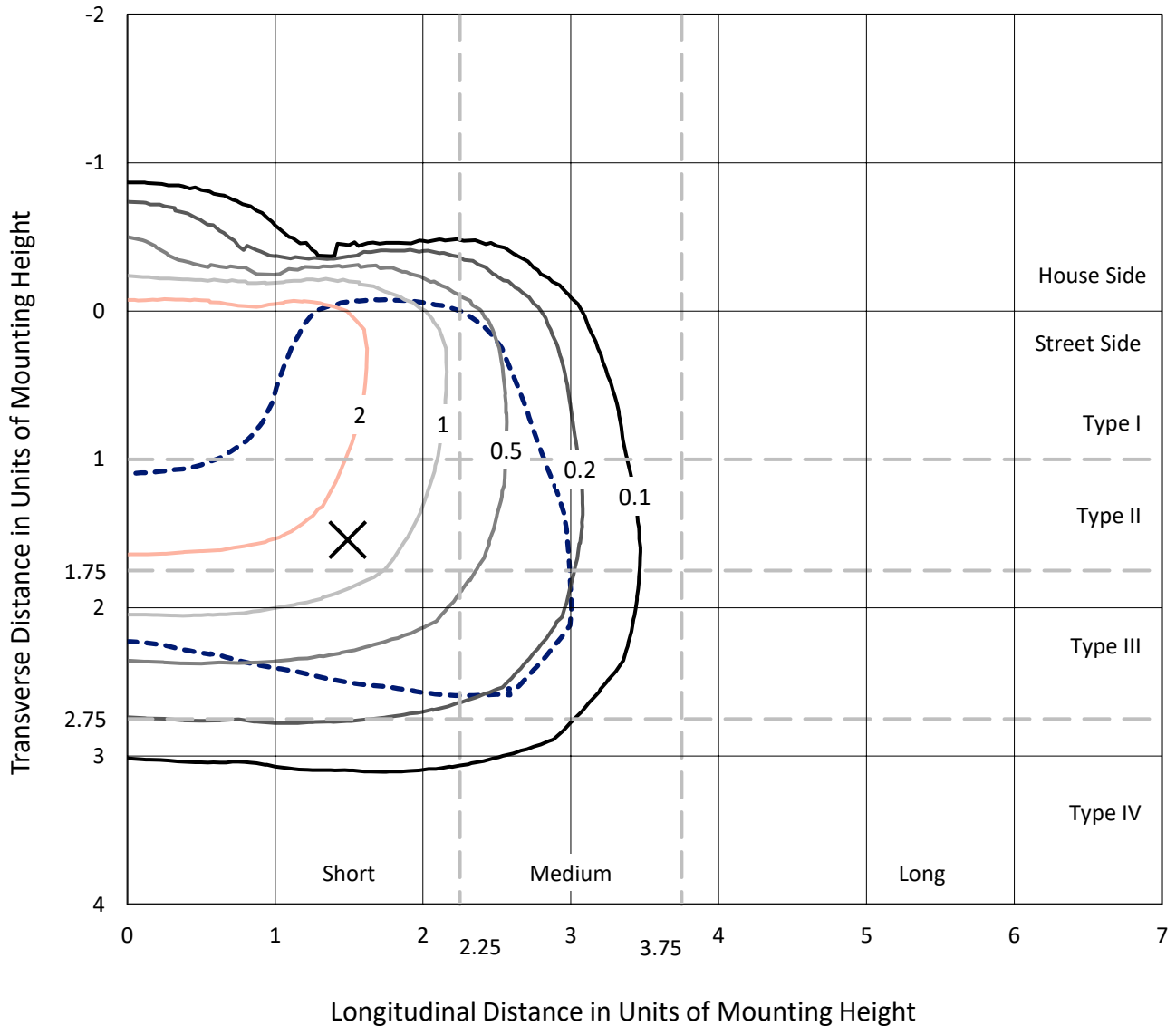
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459004
 CATALOG NUMBER: GALN-SA5A-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

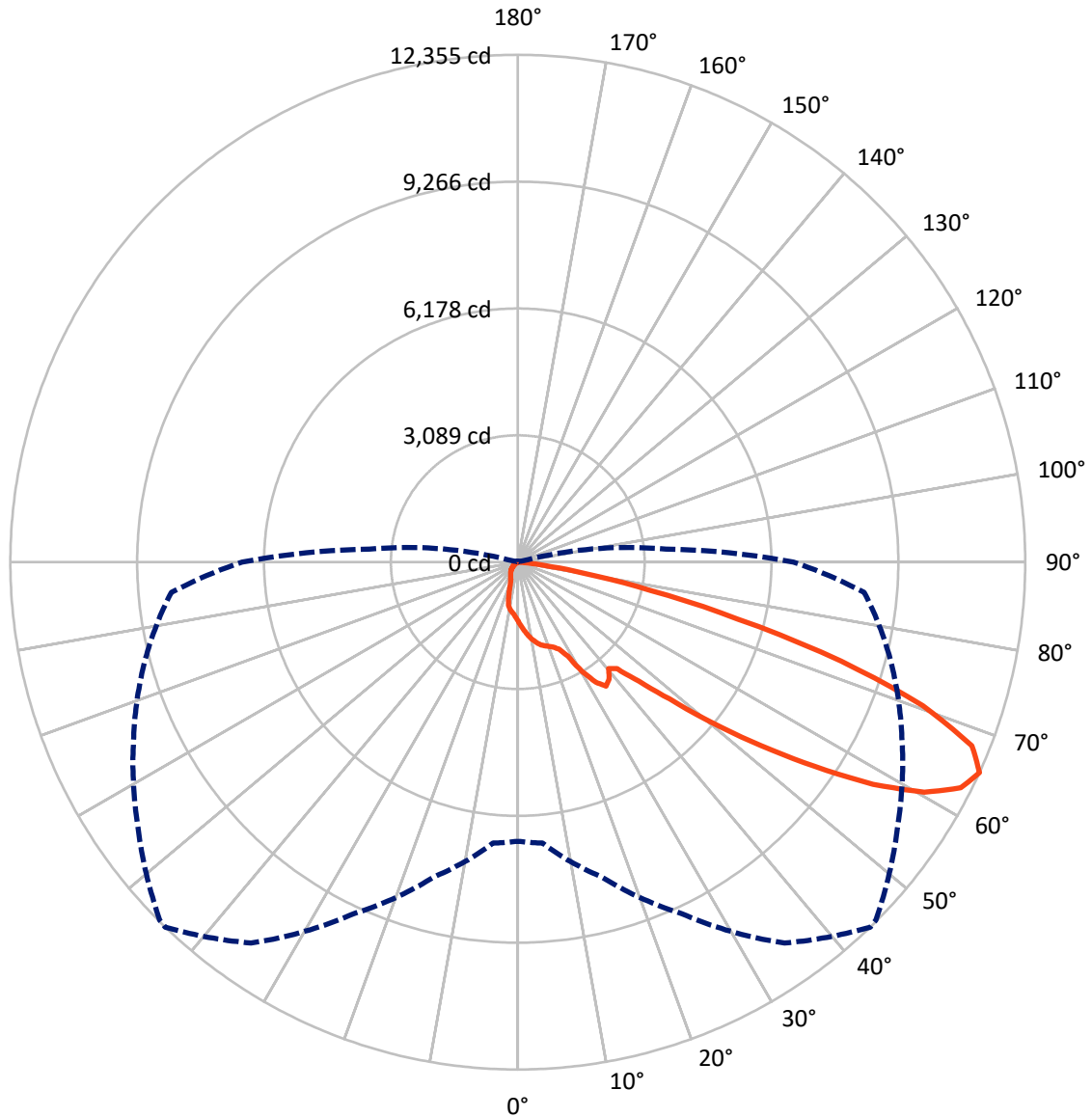
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P459004
CATALOG NUMBER: GALN-SA5A-735-U-T4W-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P459004
 CATALOG NUMBER: GALN-SA5A-735-U-T4W-HSS

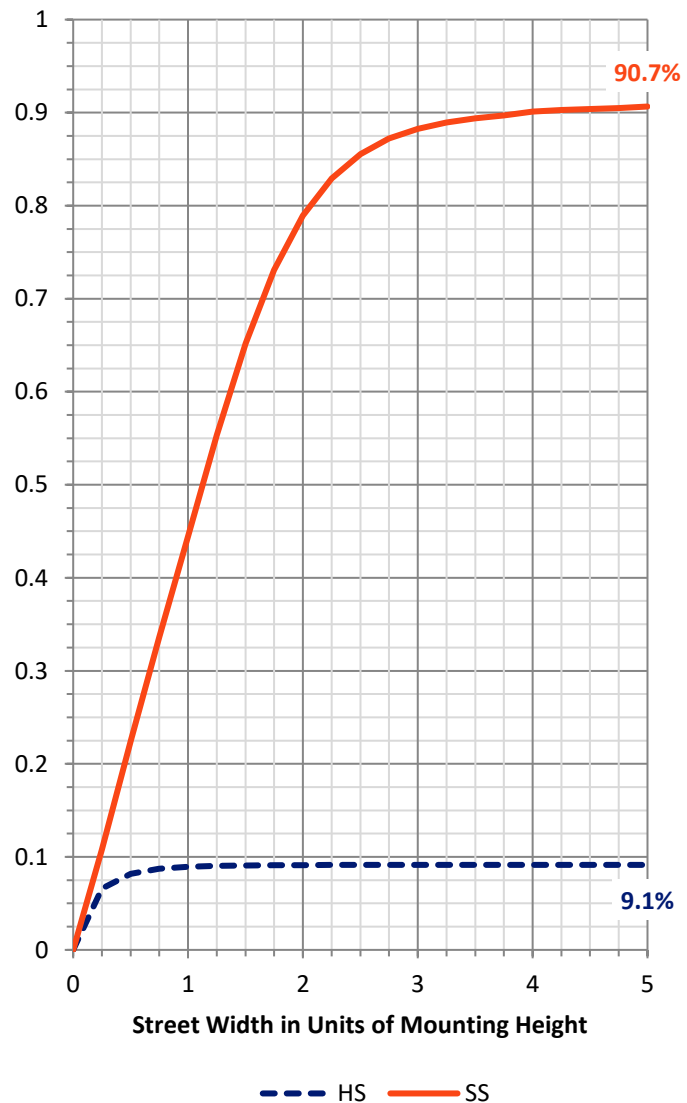
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.9	0.0	1421.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14011.1	0.0	14011.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	15433.0	0.0	15433.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	0.9
10°-20°	430.0	2.8
20°-30°	729.1	4.7
30°-40°	1212.2	7.9
40°-50°	2116.5	13.7
50°-60°	4134.9	26.8
60°-70°	4797.4	31.1
70°-80°	1747.0	11.3
80°-90°	123.1	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°	15433.0	100.0
0°-180°	15433.0	100.0



REPORT NUMBER: P459004

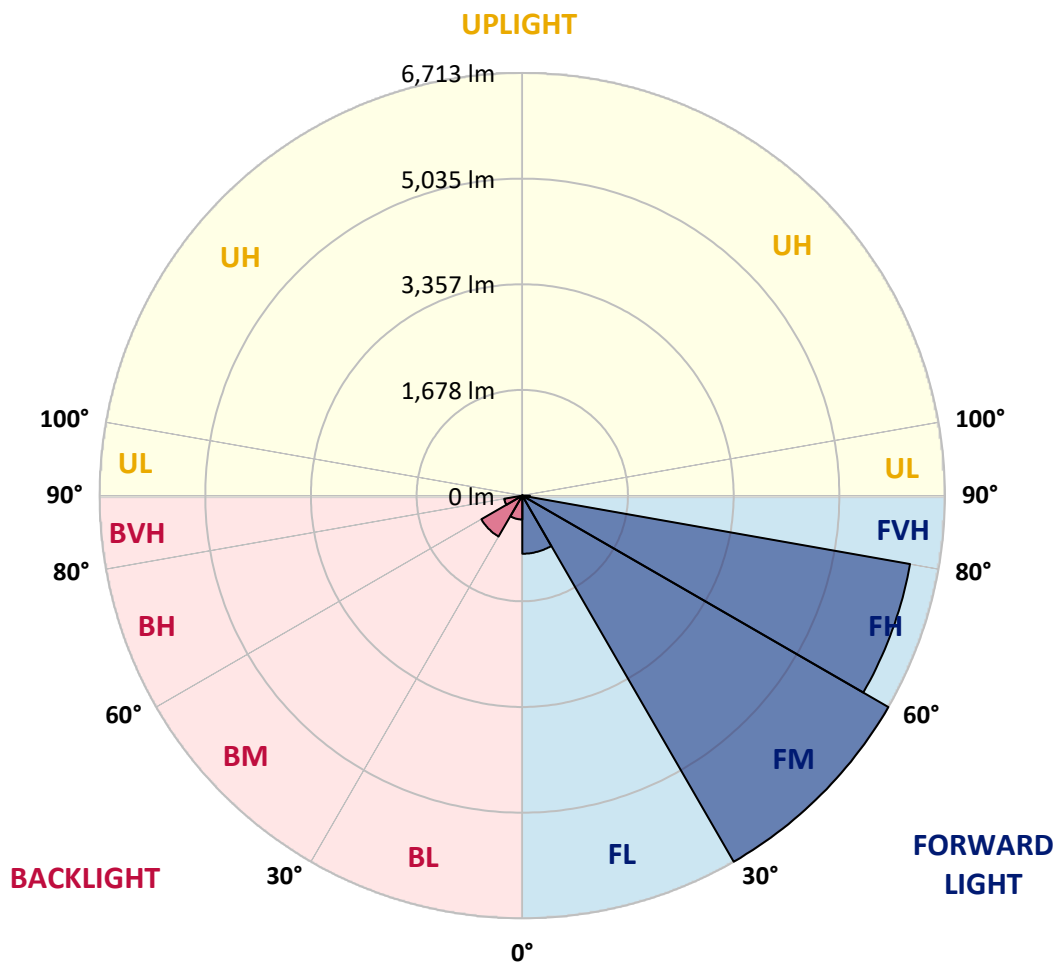
CATALOG NUMBER: GALN-SA5A-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.0	6.0			
FM	(30°-60°)	6713.4	43.5			
FH	(60°-80°)	6253.3	40.5			G3/7500
FVH	(80°-90°)	121.4	0.8			G2/225
BL	(0°-30°)	378.8	2.5	B1/500		
BM	(30°-60°)	750.2	4.9	B1/1000		
BH	(60°-80°)	291.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.7	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





REPORT NUMBER: P459004

CATALOG NUMBER: GALN-SA5A-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1616.8	1609.7	1606.2	1587.3	1573.1	1555.5	1555.5	1533.1	1507.1	1478.8	1452.9
5°	1797.2	1785.4	1770.1	1753.6	1720.6	1673.4	1673.4	1626.2	1572.0	1523.6	1470.6
7.5°	1970.6	1959.9	1934.0	1902.2	1847.9	1798.4	1794.9	1726.5	1661.6	1588.5	1513.0
10°	2122.7	2114.4	2092.0	2030.7	1974.1	1909.2	1908.1	1831.4	1755.9	1666.3	1573.1
12.5°	2228.8	2230.0	2200.5	2141.6	2068.4	2007.1	2002.4	1926.9	1847.9	1751.2	1636.8
15°	2304.3	2304.3	2273.6	2207.6	2141.6	2087.3	2082.6	2016.6	1935.2	1830.2	1706.4
17.5°	2325.5	2332.6	2299.6	2240.6	2187.5	2140.4	2139.2	2083.8	2018.9	1917.5	1777.2
20°	2317.3	2324.3	2298.4	2252.4	2215.9	2188.7	2185.2	2162.8	2102.6	2007.1	1852.6
22.5°	2299.6	2306.7	2287.8	2260.7	2243.0	2251.2	2245.3	2264.2	2232.4	2116.8	1942.3
25°	2303.1	2310.2	2296.0	2280.7	2296.0	2346.7	2362.1	2443.4	2415.1	2255.9	2039.0
27.5°	2414.0	2428.1	2408.1	2415.1	2469.4	2587.3	2616.8	2757.1	2632.1	2432.8	2189.9
30°	2660.4	2651.0	2613.3	2647.5	2836.1	3086.2	3077.9	3055.5	2859.7	2636.8	2369.2
32.5°	2884.5	2876.2	2873.9	3021.3	3363.3	3484.7	3478.8	3261.9	3063.7	2870.3	2546.0
35°	2975.3	2943.5	2936.4	3293.7	3865.7	3705.3	3668.7	3346.8	3311.4	3125.1	2726.5
37.5°	3248.9	3226.5	3116.8	3338.5	3665.2	3612.1	3583.8	3493.0	3575.5	3350.3	2930.5
40°	3812.6	3750.1	3651.0	3434.0	3381.0	3403.4	3431.7	3680.5	3888.1	3658.1	3202.9
42.5°	4513.1	4498.9	4315.0	3910.5	3513.0	3543.7	3580.3	4072.0	4337.4	4121.6	3647.5
45°	5353.9	5373.9	5108.6	4631.0	4109.8	4135.7	4188.8	4649.9	4945.9	4842.1	4346.8
47.5°	6118.1	6102.7	6013.1	5516.6	5035.5	4977.7	5063.8	5391.6	5787.9	5804.4	5214.7
50°	6886.9	6968.3	6835.1	6640.5	6283.2	6161.7	6129.9	6290.2	6894.0	6815.0	6257.2
52.5°	7991.9	8034.4	7784.4	7734.8	7816.2	7422.3	7390.5	7429.4	7969.5	7698.3	7037.9
55°	8686.5	8661.7	8568.6	8955.4	9277.3	8785.6	8745.5	8588.6	8862.2	8322.1	7789.1
57.5°	8905.9	8941.2	9158.2	9857.5	10619.3	10201.9	10128.8	9683.0	9506.1	8903.5	8480.1
60°	8808.0	8872.8	9341.0	10381.1	11437.7	11375.2	11312.7	10563.9	9968.4	9389.4	8964.8
62.5°	8111.0	8201.8	8950.7	10288.0	11714.9	12105.2	12027.4	11113.4	10276.2	9625.2	9049.7
65°	6797.3	6864.5	7940.0	9442.4	11321.0	12355.2	12326.9	11285.6	10324.5	9409.4	8468.3
67.5°	4845.6	5074.4	6070.9	7957.7	10155.9	11928.3	11976.7	11079.3	9870.5	8476.6	7013.1
70°	3046.1	3201.7	3916.4	5697.1	8141.7	10464.9	10624.1	10134.7	8566.2	6607.5	4694.7
72.5°	1452.9	1568.4	2077.9	3606.2	5746.6	8233.7	8359.9	8319.8	6624.0	4162.8	2422.2
75°	647.4	691.1	991.8	1840.8	3710.0	5534.3	5861.0	5915.2	4139.2	2036.6	942.2
77.5°	330.2	331.4	464.6	891.5	1852.6	3302.0	3366.8	3556.7	2244.2	897.4	327.8
80°	175.7	187.5	246.5	421.0	961.1	1626.2	1618.0	1778.3	995.3	439.9	109.7
82.5°	79.0	87.3	139.2	220.5	469.3	616.8	665.1	727.6	426.9	280.7	48.4
85°	23.6	28.3	68.4	110.9	169.8	178.1	199.3	257.1	241.8	199.3	24.8
87.5°	3.5	3.5	28.3	30.7	24.8	31.8	33.0	36.6	77.8	73.1	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459004

CATALOG NUMBER: GALN-SA5A-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1438.7	1430.5	1401.0	1376.2	1355.0	1342.0	1326.7	1317.2	1312.5	1309.0	1310.2
5°	1444.6	1424.6	1373.9	1333.8	1303.1	1270.1	1247.7	1234.7	1228.8	1219.4	1219.4
7.5°	1477.6	1445.8	1375.0	1313.7	1260.6	1215.8	1173.4	1158.0	1147.4	1145.1	1142.7
10°	1524.8	1484.7	1388.0	1303.1	1227.6	1166.3	1106.2	1053.1	1011.8	987.0	983.5
12.5°	1583.8	1526.0	1408.0	1296.0	1199.3	1090.8	931.6	824.3	752.4	730.0	733.5
15°	1638.0	1575.5	1428.1	1290.1	1147.4	904.5	724.1	601.4	564.9	561.3	562.5
17.5°	1702.9	1628.6	1451.7	1281.9	1004.7	691.1	537.7	504.7	511.8	523.6	522.4
20°	1770.1	1685.2	1480.0	1232.3	801.9	520.1	475.2	478.8	489.4	500.0	502.4
22.5°	1842.0	1750.0	1513.0	1113.2	612.0	452.8	450.5	455.2	465.8	477.6	480.0
25°	1941.1	1831.4	1537.8	957.6	463.5	418.6	423.4	431.6	441.0	454.0	456.4
27.5°	2068.4	1941.1	1550.7	754.7	401.0	388.0	389.2	401.0	412.7	424.5	424.5
30°	2233.5	2072.0	1524.8	570.8	370.3	358.5	353.8	360.9	376.2	388.0	389.2
32.5°	2380.9	2195.8	1456.4	436.3	347.9	331.4	319.6	320.8	326.7	333.7	334.9
35°	2528.4	2316.1	1339.7	366.8	324.3	305.4	287.7	278.3	273.6	270.1	273.6
37.5°	2717.0	2465.9	1184.0	333.7	304.3	280.7	255.9	235.9	219.3	208.7	211.1
40°	2960.0	2673.4	1000.0	312.5	285.4	257.1	224.1	198.1	169.8	160.4	155.7
42.5°	3360.9	2988.3	806.6	294.8	266.5	232.3	191.0	155.7	129.7	120.3	122.6
45°	3994.2	3385.7	621.5	275.9	247.6	205.2	160.4	122.6	101.4	96.7	99.1
47.5°	4833.8	3899.8	478.8	254.7	224.1	175.7	126.2	96.7	83.7	82.5	81.4
50°	5623.9	4378.6	399.8	231.1	195.8	146.2	103.8	81.4	73.1	71.9	71.9
52.5°	6338.6	4721.8	325.5	204.0	165.1	120.3	87.3	71.9	64.9	61.3	61.3
55°	6974.2	4945.9	264.2	171.0	129.7	95.5	75.5	64.9	56.6	51.9	50.7
57.5°	7454.2	4973.0	198.1	136.8	96.7	74.3	64.9	56.6	47.2	41.3	38.9
60°	7659.4	4738.3	146.2	103.8	71.9	59.0	51.9	46.0	35.4	29.5	28.3
62.5°	7453.0	4281.9	108.5	79.0	55.4	43.6	36.6	34.2	24.8	17.7	16.5
65°	6713.6	3622.7	86.1	60.1	41.3	31.8	23.6	22.4	15.3	8.3	7.1
67.5°	5378.7	2837.3	68.4	44.8	29.5	21.2	15.3	14.2	8.3	2.4	2.4
70°	3497.7	1813.7	55.4	33.0	18.9	14.2	9.4	7.1	4.7	1.2	0.0
72.5°	1730.0	847.9	44.8	25.9	13.0	7.1	3.5	2.4	3.5	0.0	0.0
75°	671.0	301.9	33.0	17.7	7.1	3.5	2.4	0.0	1.2	0.0	0.0
77.5°	222.9	100.2	20.0	9.4	4.7	2.4	0.0	0.0	0.0	0.0	0.0
80°	82.5	38.9	10.6	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	33.0	15.3	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	9.4	4.7	3.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	7.1	4.7	3.5	2.4	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)