

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: P458878

Luminaire Tested: **GALN-SA4A-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12598 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

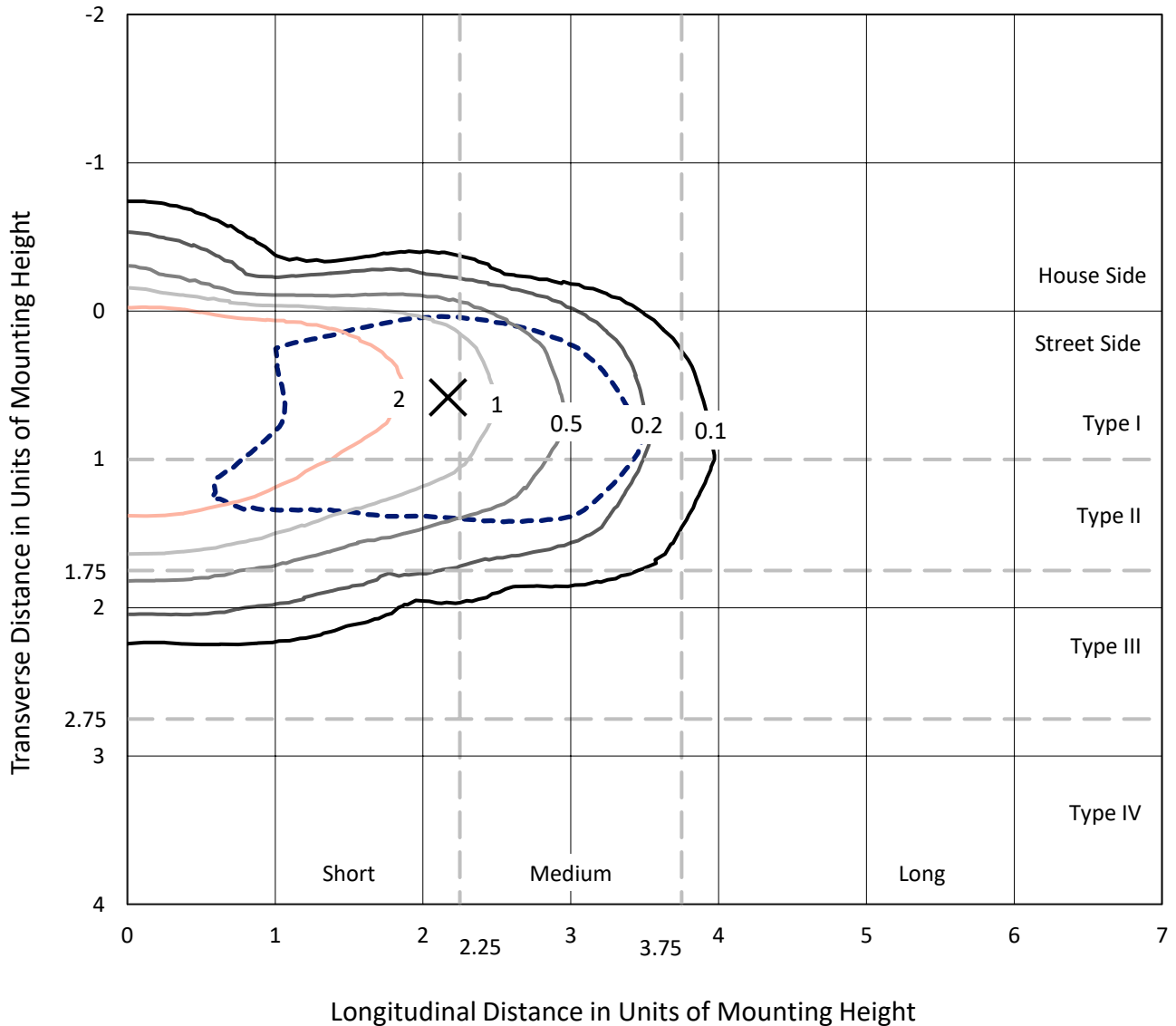
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458878
 CATALOG NUMBER: GALN-SA4A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

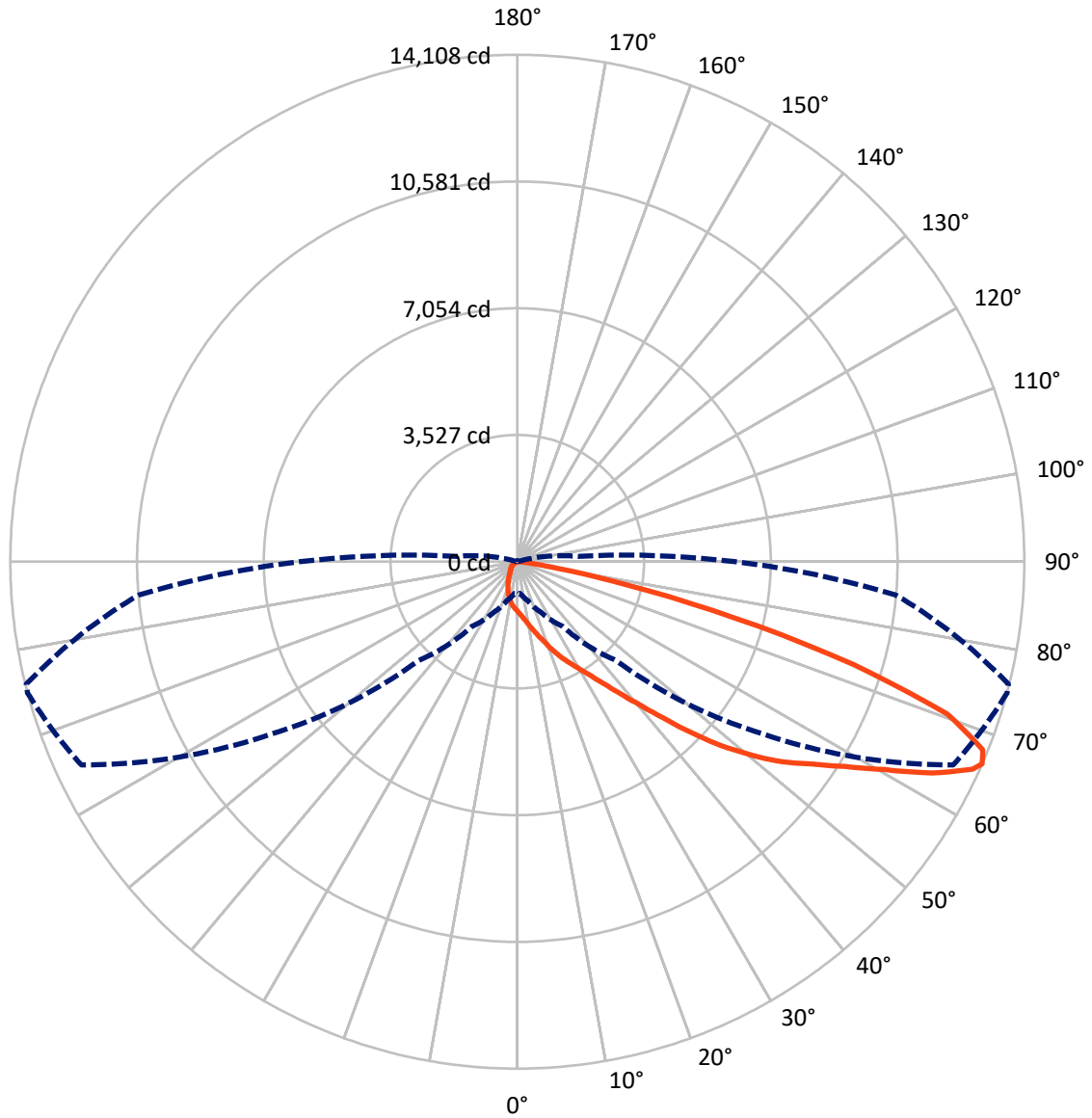
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P458878
CATALOG NUMBER: GALN-SA4A-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P458878

CATALOG NUMBER: GALN-SA4A-735-U-T2-HSS

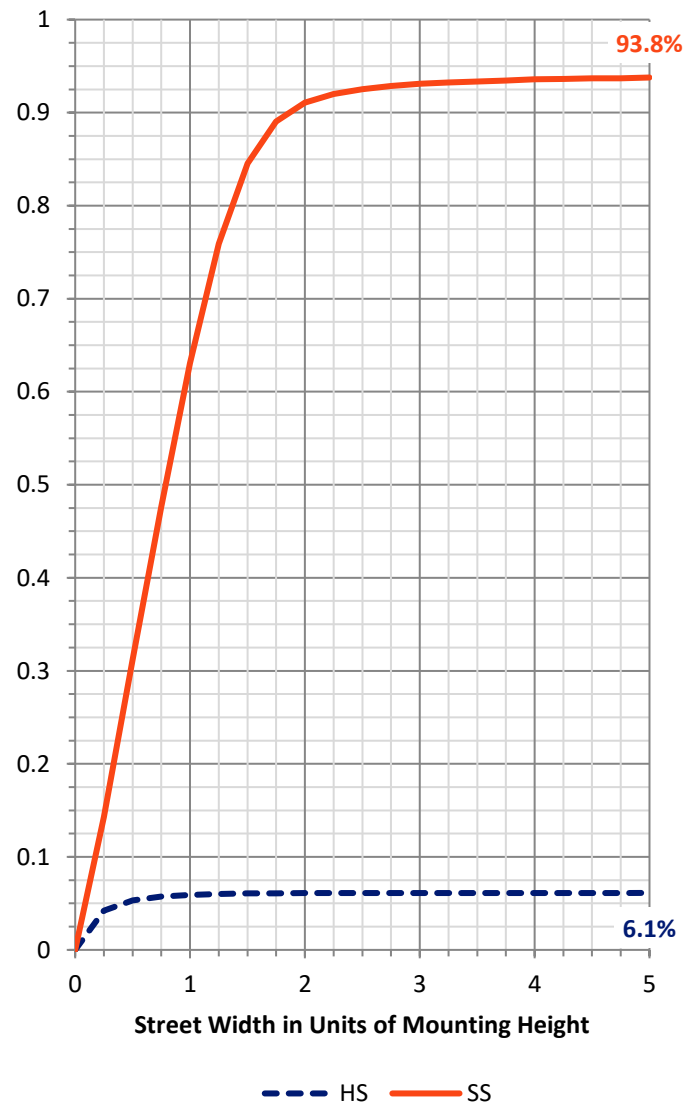
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.8	0.0	777.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11820.2	0.0	11820.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	12598.0	0.0	12598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	1.1
10°-20°	391.1	3.1
20°-30°	675.3	5.4
30°-40°	1218.1	9.7
40°-50°	2200.6	17.5
50°-60°	3430.7	27.2
60°-70°	3259.0	25.9
70°-80°	1221.4	9.7
80°-90°	68.9	0.5
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°	12598.0	100.0
0°-180°	12598.0	100.0



REPORT NUMBER: P458878

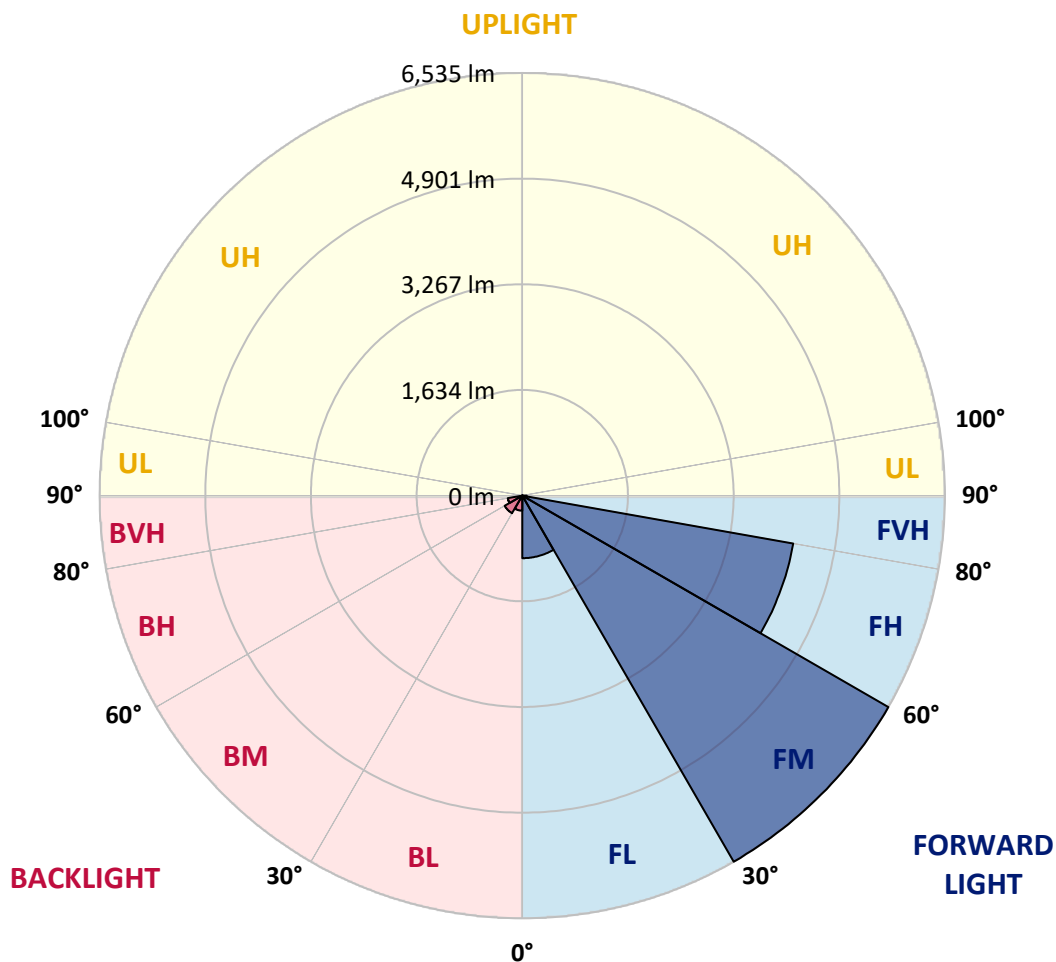
CATALOG NUMBER: GALN-SA4A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.0	7.7			
FM (30°-60°)	6534.6	51.9			
FH (60°-80°)	4253.3	33.8			G2/5000
FVH (80°-90°)	65.4	0.5			G1/100
BL (0°-30°)	232.3	1.8	B1/500		
BM (30°-60°)	314.8	2.5	B1/1000		
BH (60°-80°)	227.1	1.8	B1/500		G1/500
BVH (80°-90°)	3.6	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-G2

Type II Short





REPORT NUMBER: P458878

CATALOG NUMBER: GALN-SA4A-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7
2.5°	1646.0	1625.5	1632.0	1622.7	1601.3	1569.6	1541.7	1501.6	1461.6	1455.0	1410.3
5°	1863.0	1857.4	1850.0	1823.0	1808.1	1759.6	1701.9	1633.0	1550.0	1535.1	1454.1
7.5°	2011.1	2008.4	2012.1	1998.1	1985.1	1941.3	1879.8	1785.7	1657.2	1648.8	1513.7
10°	2059.6	2067.0	2081.0	2103.4	2123.9	2109.9	2063.3	1945.9	1796.0	1771.7	1581.7
12.5°	2031.6	2040.0	2073.6	2133.2	2199.3	2237.5	2218.9	2133.2	1943.1	1923.6	1658.1
15°	1959.9	1970.2	2017.7	2109.9	2228.2	2336.2	2382.8	2321.3	2114.5	2082.9	1750.3
17.5°	1853.7	1868.6	1936.6	2058.7	2220.7	2407.0	2538.4	2517.9	2297.1	2267.3	1850.9
20°	1773.6	1784.8	1842.5	1982.3	2189.1	2446.2	2686.5	2744.3	2522.6	2471.3	1969.2
22.5°	1826.7	1830.4	1850.0	1933.8	2132.2	2456.4	2816.9	2979.9	2762.0	2716.3	2092.2
25°	2086.6	2049.3	2029.8	2011.1	2120.1	2447.1	2935.2	3225.8	3000.4	2952.0	2214.2
27.5°	2496.5	2479.7	2381.0	2248.7	2223.5	2459.2	3013.5	3458.7	3224.9	3172.8	2333.5
30°	2942.7	2913.8	2853.2	2659.5	2464.8	2544.9	3070.3	3685.1	3490.4	3421.5	2442.4
32.5°	3352.5	3371.2	3280.8	3081.5	2856.0	2727.5	3143.9	3931.9	3795.0	3709.3	2569.1
35°	3830.4	3867.7	3728.9	3537.9	3274.3	3057.2	3287.3	4210.5	4181.6	4073.5	2764.7
37.5°	4315.7	4338.1	4253.3	3985.0	3747.5	3476.4	3557.5	4554.2	4657.6	4565.4	2998.6
40°	4723.7	4754.5	4692.1	4453.6	4200.2	3961.7	3949.6	4928.7	5224.0	5128.9	3346.9
42.5°	5035.8	5059.1	5060.9	4892.3	4664.1	4556.1	4449.9	5406.5	5933.8	5823.9	3751.2
45°	5429.8	5463.4	5443.8	5329.2	5158.7	5139.2	5084.2	5984.1	6783.3	6644.5	4275.7
47.5°	6039.0	6061.4	6013.0	5877.9	5704.6	5735.4	5702.8	6631.5	7649.6	7530.4	4818.7
50°	6461.9	6499.2	6568.1	6622.2	6496.4	6382.8	6285.9	7236.0	8472.2	8365.0	5373.9
52.5°	6457.3	6518.8	6736.7	7008.7	7283.5	7249.1	6970.6	7903.9	9257.4	9125.2	5895.6
55°	6022.3	6141.5	6461.9	6944.5	7705.5	8084.6	7958.0	8677.1	9935.6	9846.2	6500.1
57.5°	5124.3	5196.9	5642.2	6316.6	7469.8	8477.7	9101.9	9725.1	10748.8	10706.9	7439.1
60°	3446.6	3479.2	4052.1	4885.8	6359.5	8085.6	9940.2	10992.8	11750.2	11729.7	8535.5
62.5°	1974.8	1988.8	2404.2	3107.5	4525.3	6852.2	10011.0	12556.9	12950.9	12962.1	9804.2
65°	1062.9	1070.3	1405.7	1823.9	2753.6	4884.0	9002.2	13413.9	13921.5	13943.0	10590.4
66°	917.5	882.1	1118.8	1554.7	2190.9	3887.2	8364.1	13383.1	14107.8	14084.6	10562.5
67.5°	697.7	729.4	893.3	1195.1	1623.6	2763.8	6905.3	12787.9	13966.3	13893.6	10133.1
70°	499.3	512.3	636.2	852.3	1105.7	1516.5	4412.6	10621.2	12693.8	12596.0	8828.0
72.5°	322.3	336.3	450.9	616.7	799.2	828.1	2470.4	7673.8	9786.5	9772.6	6648.2
75°	230.1	243.1	298.1	441.5	600.8	512.3	1189.5	5171.8	6221.6	6179.7	4112.7
77.5°	166.7	173.3	199.3	288.8	429.4	367.0	551.5	2762.0	3097.3	3243.5	1817.4
80°	95.9	101.5	138.8	176.1	290.6	250.6	263.6	1108.5	1143.0	1088.0	568.2
82.5°	47.5	54.0	82.9	120.2	181.6	168.6	121.1	333.5	352.1	342.8	143.5
85°	11.2	14.0	46.6	79.2	88.5	75.5	58.7	97.8	121.1	118.3	55.0
87.5°	0.9	1.9	16.8	14.0	14.9	25.2	20.5	25.2	39.1	36.3	19.6
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: P458878
 CATALOG NUMBER: GALN-SA4A-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7	1377.7
2.5°	1389.8	1372.1	1320.9	1270.6	1228.7	1184.9	1144.8	1121.5	1112.2	1102.0	1106.6
5°	1409.4	1366.5	1263.1	1173.7	1086.2	1011.6	952.0	913.8	895.2	892.4	887.7
7.5°	1435.5	1361.9	1201.7	1061.9	947.4	864.4	796.4	741.5	724.7	709.8	697.7
10°	1467.1	1353.5	1125.3	944.6	822.5	718.2	628.8	563.6	530.0	520.7	527.2
12.5°	1500.7	1337.7	1045.2	836.5	695.8	562.6	479.7	447.1	437.8	434.1	435.0
15°	1534.2	1318.1	961.3	732.2	554.3	449.0	410.8	402.4	398.7	396.8	395.0
17.5°	1565.0	1286.4	867.2	630.6	449.0	383.8	369.8	362.4	354.9	352.1	347.5
20°	1601.3	1250.1	782.5	517.0	380.1	347.5	330.7	316.7	305.5	298.1	297.2
22.5°	1635.7	1203.5	694.0	428.5	346.5	312.1	285.0	270.1	257.1	247.8	250.6
25°	1654.4	1146.7	614.8	373.5	315.8	276.7	246.9	228.2	214.2	209.6	208.7
27.5°	1654.4	1076.8	537.5	341.9	287.8	245.0	214.2	196.6	187.2	180.7	181.6
30°	1641.3	999.5	465.8	317.6	263.6	217.0	188.2	172.3	164.9	160.2	159.3
32.5°	1631.1	925.9	404.3	294.4	238.5	192.8	167.7	155.6	148.1	143.5	143.5
35°	1646.9	862.6	356.8	271.1	215.2	174.2	151.8	140.7	133.2	129.5	128.5
37.5°	1688.8	804.8	320.4	245.9	193.8	158.4	140.7	127.6	120.2	115.5	113.6
40°	1792.2	772.2	293.4	222.6	173.3	145.3	127.6	115.5	106.2	101.5	100.6
42.5°	1958.1	773.2	267.3	201.2	157.4	134.1	116.4	102.5	92.2	87.6	86.6
45°	2207.7	808.6	246.9	180.7	143.5	122.0	104.3	89.4	80.1	75.5	75.5
47.5°	2506.7	877.5	229.2	163.0	130.4	110.9	92.2	77.3	68.0	64.3	64.3
50°	2830.9	966.9	211.5	144.4	119.2	98.7	79.2	67.1	59.6	56.8	56.8
52.5°	3161.6	1075.0	193.8	129.5	107.1	85.7	68.0	59.6	53.1	51.2	50.3
55°	3595.7	1212.8	175.1	113.6	94.1	73.6	60.5	52.2	44.7	41.9	41.0
57.5°	4263.6	1420.6	154.6	99.7	77.3	61.5	52.2	43.8	35.4	30.7	29.8
60°	5069.3	1673.9	133.2	87.6	62.4	50.3	41.9	33.5	26.1	20.5	19.6
62.5°	5823.9	1835.1	112.7	73.6	49.4	38.2	29.8	25.2	18.6	13.0	12.1
65°	6157.3	1781.1	93.2	59.6	39.1	27.0	19.6	17.7	11.2	5.6	4.7
66°	6046.5	1701.0	85.7	54.0	35.4	23.3	16.8	14.9	8.4	2.8	2.8
67.5°	5719.5	1511.9	74.5	46.6	30.7	18.6	13.0	11.2	4.7	0.9	0.0
70°	4900.7	1223.1	58.7	34.5	22.4	13.0	7.5	5.6	2.8	0.0	0.0
72.5°	3764.3	911.0	46.6	26.1	15.8	7.5	3.7	1.9	2.8	0.0	0.0
75°	2306.4	520.7	36.3	19.6	10.2	4.7	2.8	0.0	2.8	0.9	0.0
77.5°	1023.7	233.8	24.2	13.0	7.5	3.7	1.9	0.0	1.9	0.9	0.0
80°	259.0	76.4	14.0	9.3	5.6	2.8	0.9	0.0	1.9	1.9	0.9
82.5°	70.8	27.9	10.2	7.5	4.7	2.8	0.9	0.0	1.9	1.9	1.9
85°	27.9	13.0	9.3	7.5	5.6	2.8	0.9	0.0	1.9	1.9	1.9
87.5°	13.0	9.3	9.3	8.4	6.5	2.8	0.9	0.0	1.9	0.9	1.9
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)