

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: P452056

Luminaire Tested: **GALN-SA3A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9391 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

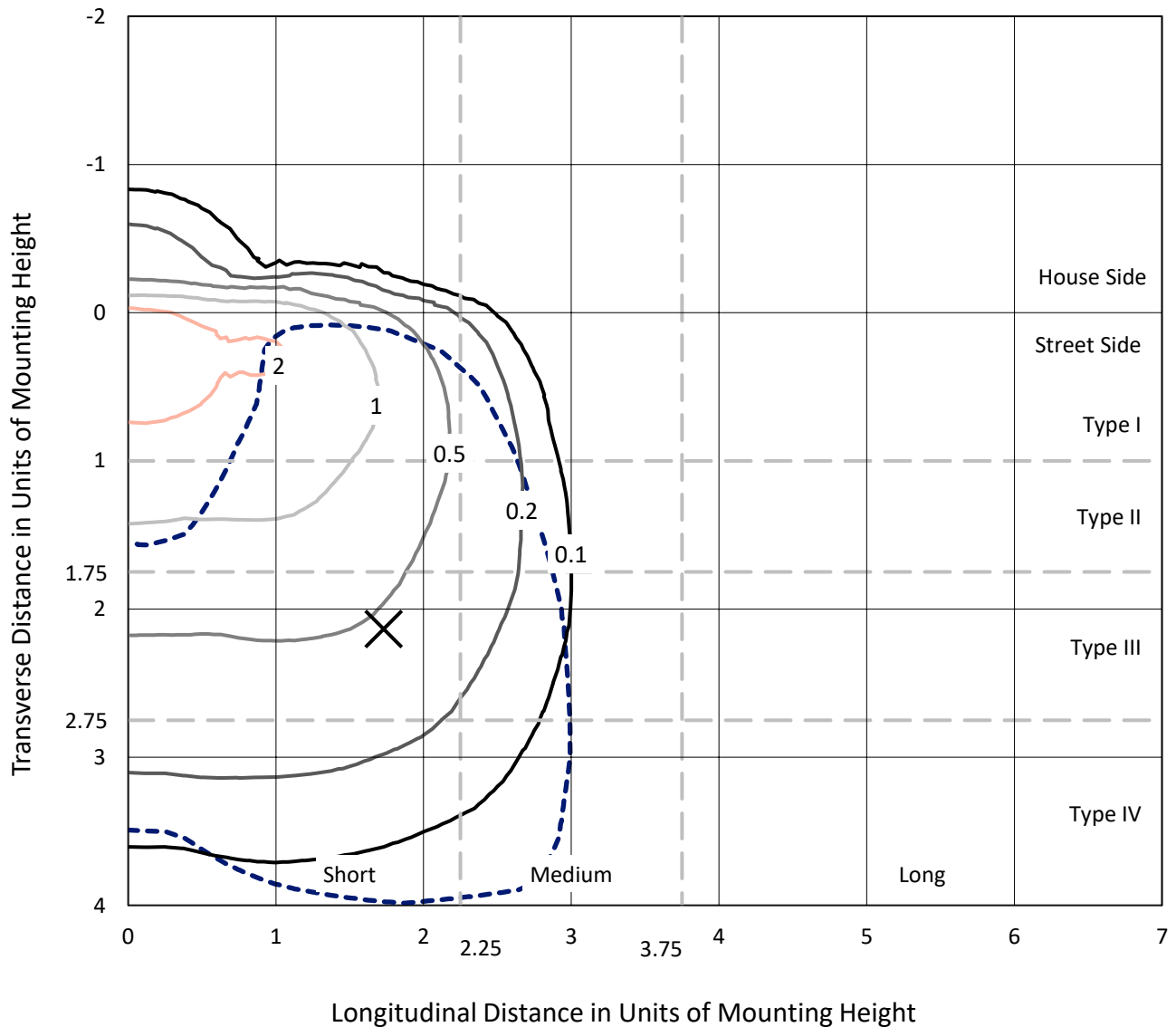
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

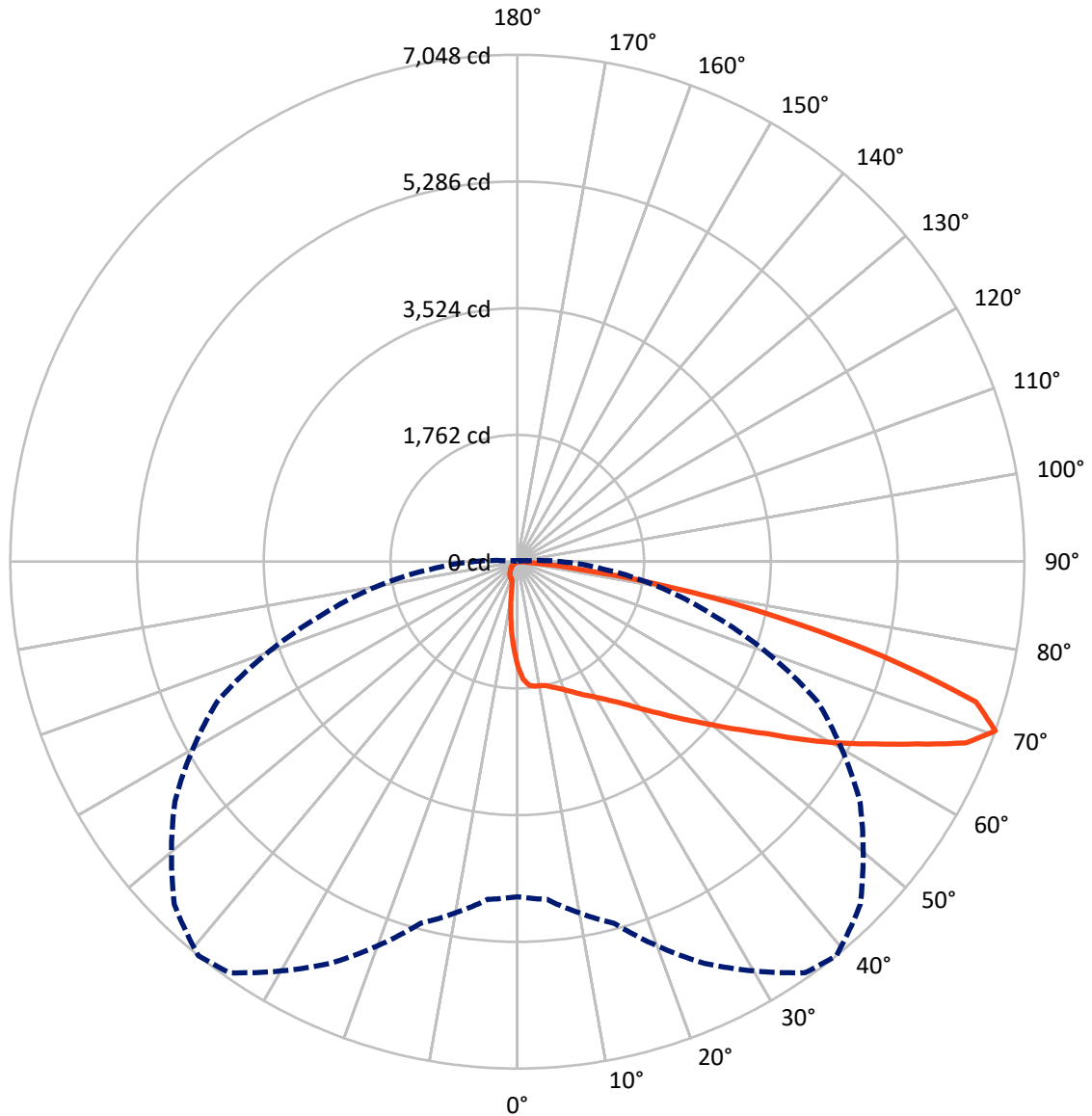
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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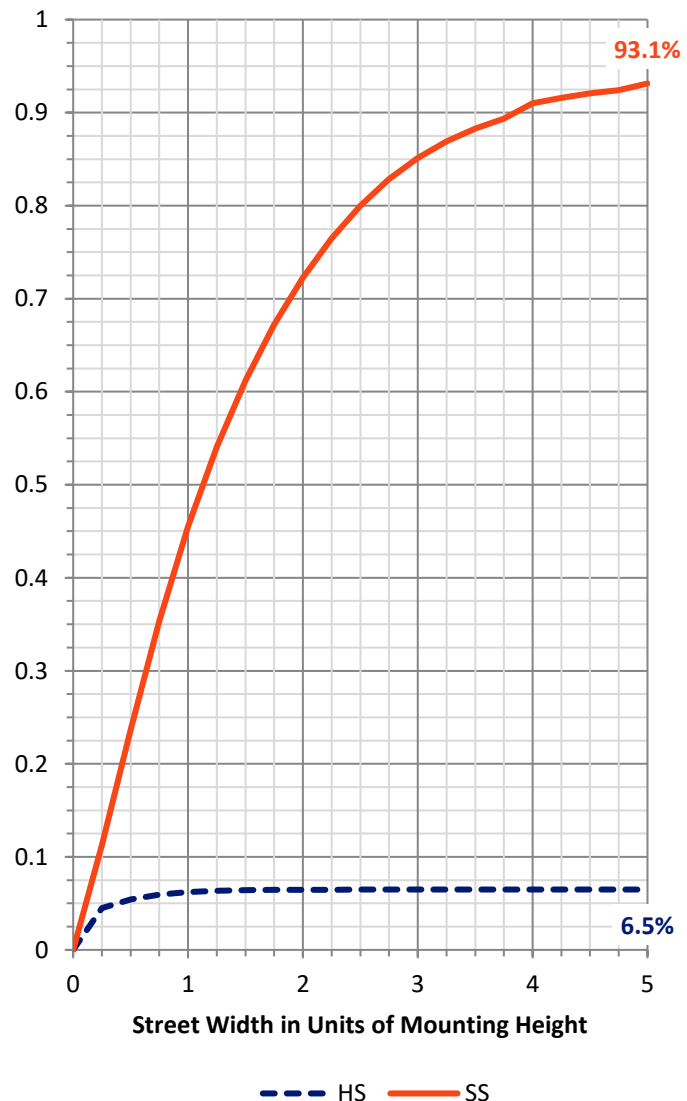
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.3	0.0	612.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8778.7	0.0	8778.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	9391.0	0.0	9391.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.3
10°-20°	324.8	3.5
20°-30°	544.1	5.8
30°-40°	843.9	9.0
40°-50°	1337.3	14.2
50°-60°	1960.2	20.9
60°-70°	2512.5	26.8
70°-80°	1578.8	16.8
80°-90°	164.5	1.8
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°	9391.0	100.0
0°-180°	9391.0	100.0



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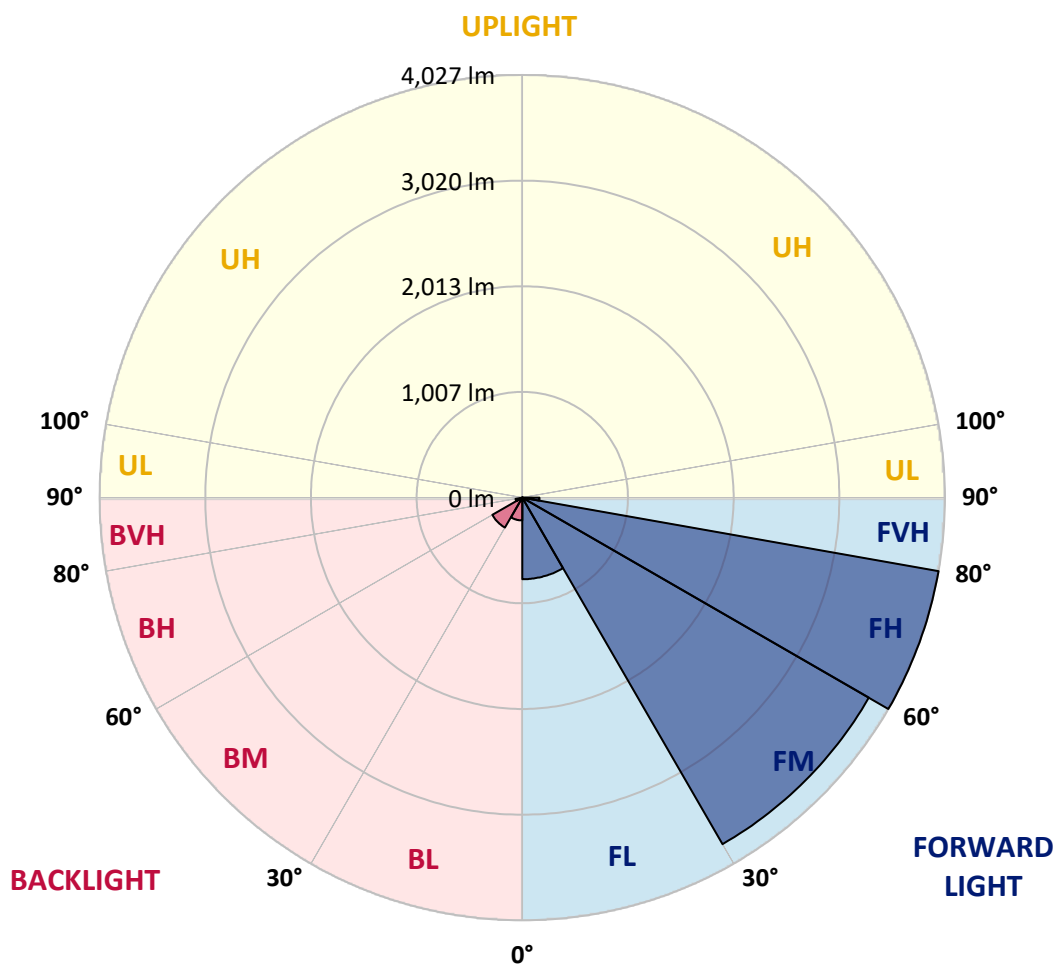
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.1	8.3			
FM (30°-60°)	3811.8	40.6			
FH (60°-80°)	4026.6	42.9			G2/5000
FVH (80°-90°)	163.3	1.7			G2/225
BL (0°-30°)	216.8	2.3	B1/500		
BM (30°-60°)	329.5	3.5	B1/1000		
BH (60°-80°)	64.8	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3
2.5°	1693.1	1687.5	1679.9	1671.0	1645.8	1641.4	1626.2	1594.1	1555.6	1524.0	1480.5
5°	1773.3	1776.4	1770.8	1755.0	1736.7	1725.9	1707.0	1657.2	1607.3	1543.6	1472.3
7.5°	1791.6	1797.9	1790.9	1775.8	1758.1	1746.8	1731.6	1688.7	1630.7	1558.1	1460.3
10°	1789.7	1797.3	1792.8	1779.0	1764.4	1753.7	1737.3	1703.2	1656.5	1580.2	1464.1
12.5°	1786.5	1796.6	1796.0	1789.1	1777.1	1768.9	1758.8	1728.5	1684.9	1612.4	1484.9
15°	1777.7	1790.3	1801.7	1807.4	1808.0	1808.0	1795.4	1763.2	1721.5	1654.6	1512.0
17.5°	1781.5	1796.0	1824.4	1840.8	1852.2	1850.9	1837.6	1802.9	1756.9	1698.2	1540.4
20°	1804.8	1824.4	1864.1	1897.0	1908.3	1904.5	1886.9	1846.5	1794.1	1735.4	1568.2
22.5°	1862.3	1879.9	1929.8	1968.3	1976.5	1966.4	1941.1	1886.2	1838.9	1775.8	1601.6
25°	1948.1	1968.9	2015.0	2044.0	2044.0	2038.3	2003.0	1938.6	1889.4	1832.0	1645.2
27.5°	2052.2	2069.9	2115.3	2141.2	2126.0	2109.6	2074.3	1996.7	1949.3	1902.6	1697.5
30°	2157.6	2168.9	2216.9	2228.3	2212.5	2191.7	2153.8	2076.2	2034.5	1998.6	1773.3
32.5°	2257.3	2281.9	2321.7	2319.1	2297.7	2287.6	2252.9	2170.2	2146.9	2143.1	1879.3
35°	2357.0	2375.9	2411.3	2420.1	2401.2	2399.3	2374.0	2312.8	2313.5	2338.1	2044.6
37.5°	2442.8	2459.9	2501.5	2521.1	2524.9	2534.3	2524.2	2483.8	2541.3	2608.8	2263.6
40°	2514.8	2538.7	2591.8	2625.8	2665.0	2699.7	2701.6	2710.4	2825.9	2942.0	2549.5
42.5°	2570.9	2604.4	2681.4	2744.5	2834.1	2878.3	2913.6	2962.2	3156.6	3330.1	2886.5
45°	2644.1	2682.6	2778.6	2877.6	3017.7	3090.3	3139.5	3269.5	3545.3	3781.9	3232.3
47.5°	2765.3	2785.5	2883.3	3027.8	3212.1	3315.6	3411.5	3608.4	3962.4	4174.5	3520.0
50°	2921.2	2934.4	3008.3	3208.9	3447.5	3583.8	3758.6	3990.2	4395.3	4500.1	3682.9
52.5°	3093.4	3097.9	3153.4	3408.3	3711.3	3882.9	4078.5	4364.4	4748.1	4732.3	3790.8
55°	3293.5	3287.2	3334.5	3624.8	4023.6	4219.9	4447.7	4747.5	5054.1	4897.0	3852.6
57.5°	3522.6	3505.5	3551.6	3911.9	4423.7	4658.5	4890.1	5078.1	5291.4	5035.2	3882.3
60°	3762.4	3728.3	3783.2	4234.4	4895.1	5117.9	5310.4	5360.8	5541.3	5145.0	3831.2
62.5°	3953.6	3954.2	4056.4	4577.7	5379.8	5574.8	5677.0	5722.4	5756.5	5121.0	3562.3
65°	4252.1	4262.2	4425.6	5054.1	5940.8	6109.9	6180.0	6032.3	5766.0	4823.2	3158.4
67.5°	4560.0	4592.2	4891.3	5710.4	6588.9	6725.2	6635.0	6092.2	5508.5	4143.5	2394.9
70°	4660.4	4713.4	5206.2	6162.3	6977.6	7048.3	6742.9	5812.7	4604.8	2770.3	1205.3
72.5°	4270.4	4356.2	5025.1	5997.6	6729.6	6668.4	6032.9	4874.9	2927.5	1052.0	367.9
75°	3011.4	3049.3	4176.3	4975.3	5412.6	5239.0	4589.1	3142.7	1204.1	295.3	126.2
77.5°	1554.9	1536.6	2483.8	3301.1	3860.2	3680.3	3005.1	1626.9	456.3	123.1	78.3
80°	804.0	817.2	1074.7	1729.7	2356.4	2168.3	1602.3	754.1	243.0	68.2	60.0
82.5°	450.6	422.8	617.8	755.4	1101.8	863.9	614.7	533.9	106.0	41.0	56.8
85°	82.0	85.8	338.9	408.3	382.4	243.0	198.2	356.5	30.9	22.7	39.8
87.5°	1.3	1.3	65.6	117.4	74.5	34.1	62.5	51.1	6.3	8.8	6.9
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°	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3
2.5°	1458.4	1434.4	1389.6	1345.4	1289.3	1243.2	1212.3	1180.1	1147.3	1149.8	1157.4
5°	1433.1	1391.5	1303.1	1209.7	1120.1	1039.4	959.8	888.5	859.5	833.0	834.3
7.5°	1407.9	1349.2	1219.8	1073.4	937.8	800.2	700.5	618.4	574.9	542.1	532.6
10°	1396.5	1318.9	1143.5	942.2	749.7	599.5	471.4	404.5	352.8	336.4	340.8
12.5°	1401.6	1303.8	1074.7	823.5	594.5	417.8	328.2	294.1	282.7	280.8	279.6
15°	1411.0	1293.0	1007.2	692.3	436.7	310.5	275.8	269.5	268.2	266.9	267.6
17.5°	1423.7	1283.6	935.2	569.2	335.1	271.4	261.3	258.1	257.5	257.5	257.5
20°	1436.3	1272.8	855.1	459.4	279.6	256.2	249.9	248.0	247.4	247.4	246.7
22.5°	1450.8	1263.4	773.7	361.0	257.5	245.5	239.8	238.5	237.9	237.3	237.3
25°	1471.6	1251.4	687.2	295.3	243.6	235.4	229.7	228.4	227.8	225.3	225.9
27.5°	1499.4	1242.6	598.2	254.9	231.0	222.8	219.0	217.1	215.8	213.9	214.6
30°	1537.3	1235.0	503.6	232.9	216.5	209.5	205.7	204.5	203.2	201.3	201.3
32.5°	1602.9	1238.1	403.9	215.2	203.2	195.0	191.2	189.9	188.7	186.8	186.8
35°	1701.3	1256.4	323.1	200.0	187.4	179.2	175.4	175.4	173.5	171.0	170.4
37.5°	1862.3	1303.1	259.4	185.5	172.3	164.7	160.3	159.0	157.1	153.3	152.7
40°	2052.2	1375.7	218.3	171.0	158.4	150.8	147.0	143.3	138.2	134.4	133.8
42.5°	2290.7	1450.2	189.3	156.5	145.1	138.2	133.8	127.5	119.9	114.9	114.2
45°	2539.4	1518.3	169.8	143.3	132.5	126.8	121.8	111.7	102.2	95.9	95.3
47.5°	2724.9	1530.9	154.0	130.6	121.8	116.1	109.2	96.6	83.9	78.3	76.4
50°	2812.6	1469.7	137.6	118.0	111.1	104.8	95.9	81.4	67.5	60.6	59.3
52.5°	2843.6	1363.7	124.3	106.6	100.3	92.8	82.0	65.6	53.0	46.1	45.4
55°	2830.9	1229.9	112.3	95.9	87.7	78.9	68.2	52.4	39.1	33.4	32.2
57.5°	2764.7	1059.5	100.3	85.2	75.1	66.3	54.3	39.1	26.5	21.5	20.8
60°	2586.1	827.3	88.3	73.2	63.7	54.3	42.9	27.8	16.4	12.0	12.0
62.5°	2284.4	614.0	77.0	61.2	53.6	43.5	30.3	17.7	8.8	6.3	5.7
65°	1909.0	453.1	64.4	51.7	44.8	34.1	21.5	10.7	4.4	1.9	1.3
67.5°	1332.2	279.6	53.6	42.3	36.6	24.6	13.3	4.4	1.9	0.0	0.0
70°	605.2	133.2	41.0	32.2	27.8	17.7	6.9	2.5	1.3	0.0	0.0
72.5°	188.1	70.0	29.0	23.3	18.9	11.4	3.8	1.9	1.3	0.0	0.0
75°	87.1	44.8	18.3	12.6	10.7	5.7	2.5	1.3	0.6	0.0	0.0
77.5°	65.0	34.7	10.7	6.9	5.7	3.8	1.9	1.3	0.6	0.0	0.0
80°	56.8	17.7	6.3	4.4	3.2	2.5	1.3	0.6	0.0	0.0	0.0
82.5°	51.1	8.8	3.8	2.5	1.9	1.3	0.6	0.6	0.0	0.0	0.0
85°	27.8	5.0	2.5	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	1.9	1.3	1.3	0.6	0.6	0.6	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)