

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: P647856

Luminaire Tested: **GALN-SA3A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647856
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-SA3A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 7732.9 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

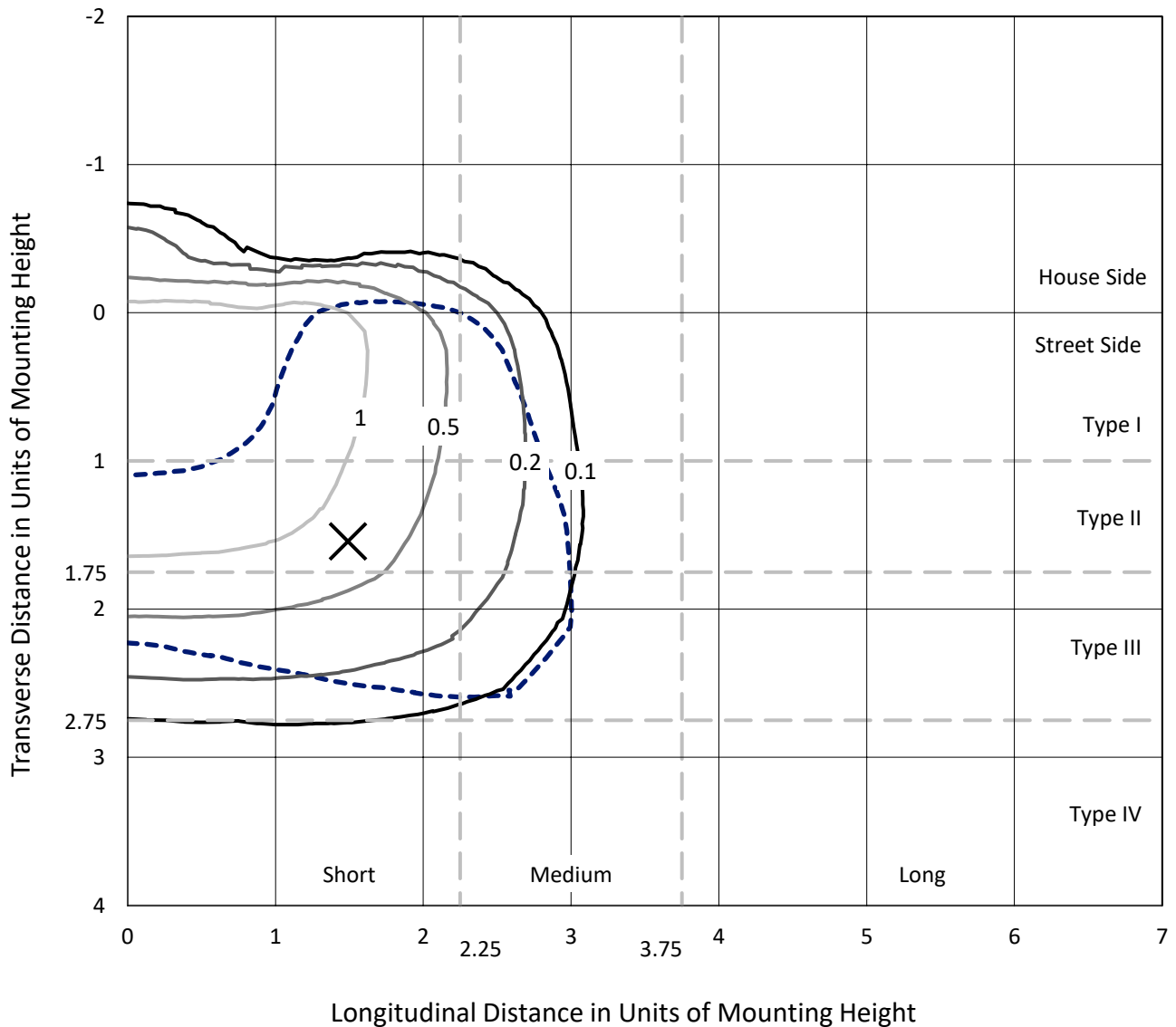
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

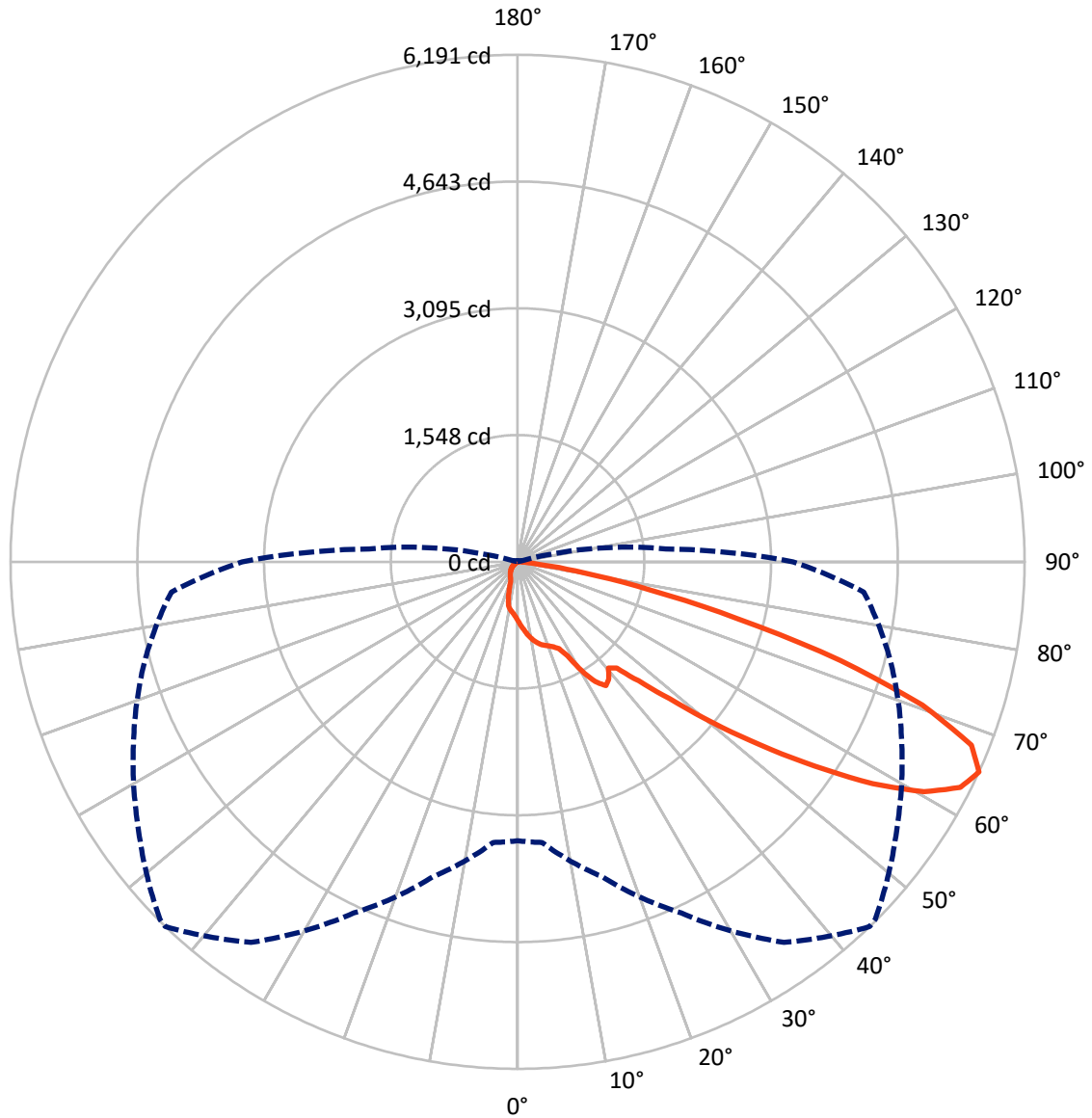
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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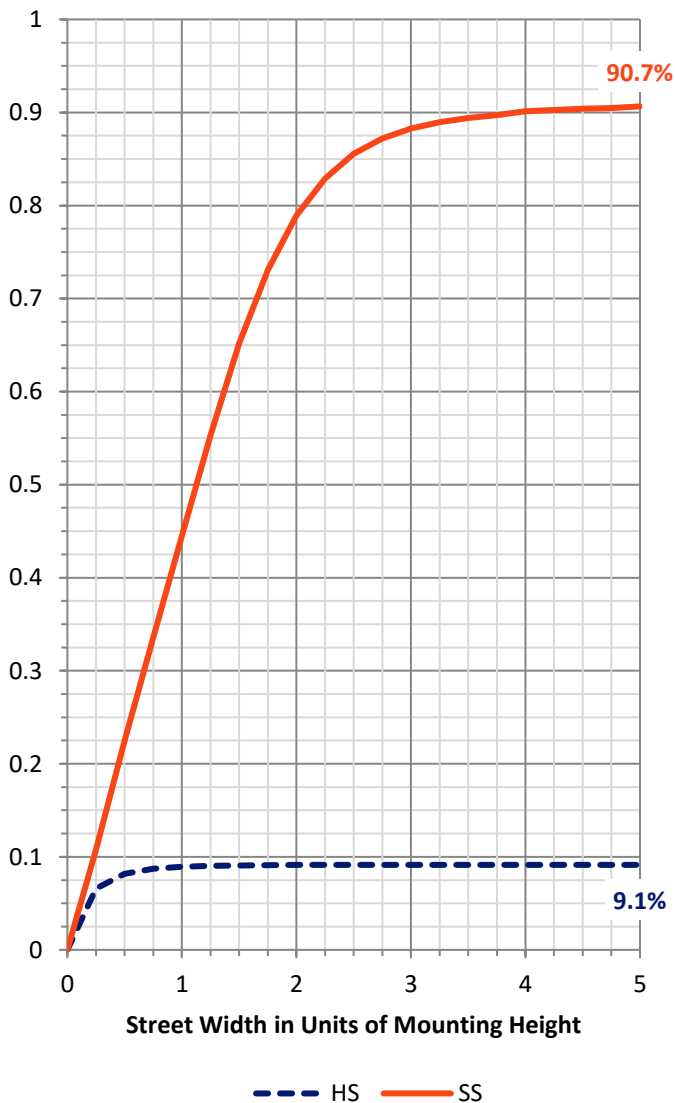
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.5	0.0	712.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7020.4	0.0	7020.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	7732.9	0.0	7732.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	0.9
10°-20°	215.4	2.8
20°-30°	365.3	4.7
30°-40°	607.4	7.9
40°-50°	1060.5	13.7
50°-60°	2071.8	26.8
60°-70°	2403.8	31.1
70°-80°	875.4	11.3
80°-90°	61.7	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°	7732.9	100.0
0°-180°	7732.9	100.0

Coefficient of Utilization

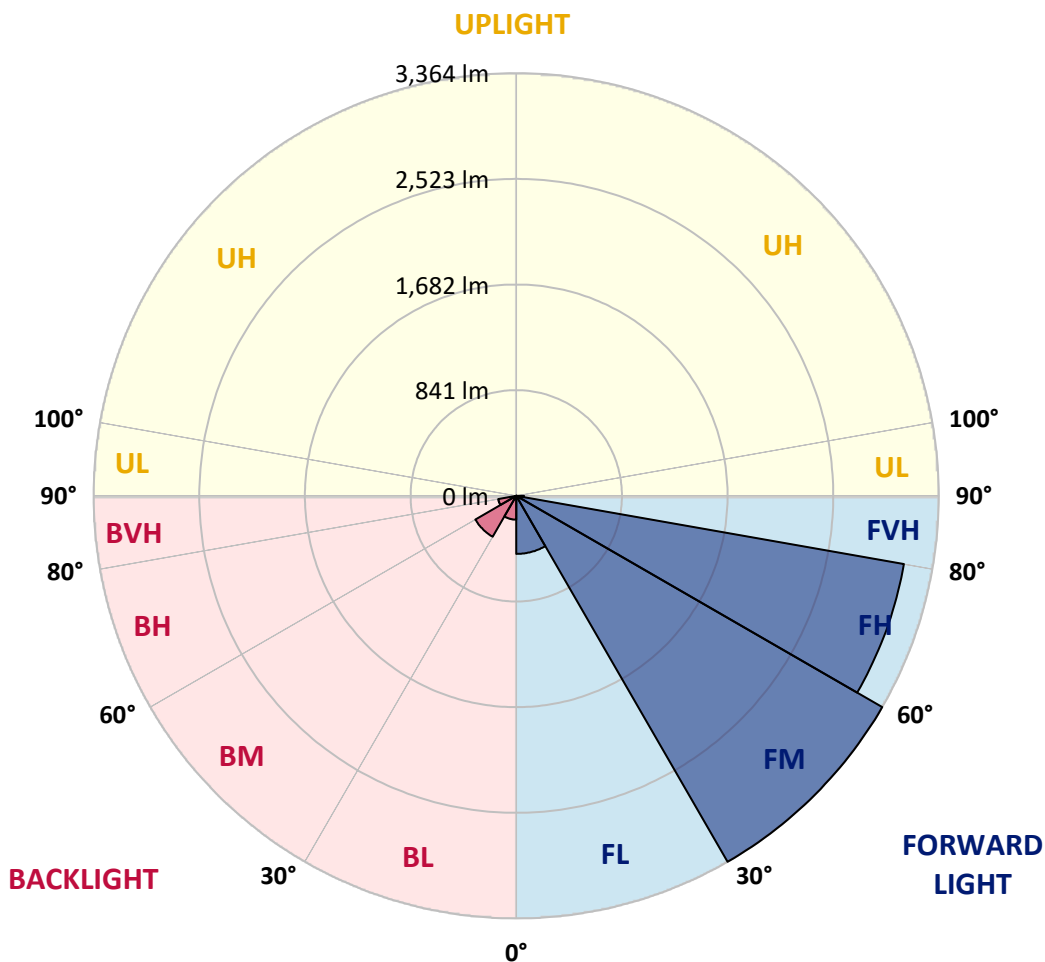


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.5	6.0			
FM (30°-60°)	3363.8	43.5			
FH (60°-80°)	3133.3	40.5			G2/5000
FVH (80°-90°)	60.8	0.8			G1/100
BL (0°-30°)	189.8	2.5	B1/500		
BM (30°-60°)	375.9	4.9	B1/1000		
BH (60°-80°)	145.9	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7
2.5°	810.1	806.6	804.8	795.4	788.2	779.4	779.4	768.1	755.1	741.0	728.0
5°	900.5	894.6	886.9	878.7	862.1	838.4	838.4	814.9	787.6	763.4	736.8
7.5°	987.4	982.0	969.0	953.1	925.9	901.1	899.4	865.1	832.6	795.9	758.1
10°	1063.6	1059.5	1048.2	1017.5	989.2	956.7	956.0	917.7	879.9	834.9	788.2
12.5°	1116.8	1117.3	1102.6	1073.0	1036.5	1005.7	1003.3	965.5	925.9	877.5	820.2
15°	1154.6	1154.6	1139.3	1106.1	1073.0	1045.9	1043.5	1010.4	969.7	917.0	855.0
17.5°	1165.3	1168.8	1152.3	1122.7	1096.1	1072.5	1071.8	1044.1	1011.6	960.8	890.5
20°	1161.1	1164.6	1151.6	1128.6	1110.3	1096.7	1094.9	1083.7	1053.5	1005.7	928.3
22.5°	1152.3	1155.8	1146.3	1132.8	1123.8	1128.0	1125.0	1134.5	1118.5	1060.7	973.2
25°	1154.0	1157.6	1150.5	1142.8	1150.5	1175.8	1183.6	1224.3	1210.1	1130.3	1021.7
27.5°	1209.6	1216.6	1206.6	1210.1	1237.3	1296.4	1311.2	1381.5	1318.9	1219.0	1097.3
30°	1333.1	1328.3	1309.4	1326.6	1421.1	1546.3	1542.2	1531.0	1432.9	1321.2	1187.1
32.5°	1445.3	1441.2	1440.0	1513.9	1685.3	1746.1	1743.1	1634.4	1535.1	1438.2	1275.7
35°	1490.8	1474.9	1471.3	1650.3	1936.9	1856.6	1838.2	1677.0	1659.3	1565.8	1366.1
37.5°	1627.9	1616.7	1561.7	1672.8	1836.4	1809.9	1795.7	1750.2	1791.6	1678.8	1468.4
40°	1910.4	1879.0	1829.4	1720.6	1694.1	1705.3	1719.5	1844.2	1948.2	1832.9	1604.8
42.5°	2261.3	2254.3	2162.1	1959.4	1760.3	1775.6	1793.9	2040.3	2173.3	2065.2	1827.6
45°	2682.6	2692.7	2559.7	2320.4	2059.2	2072.2	2098.8	2329.9	2478.2	2426.2	2178.0
47.5°	3065.5	3057.8	3012.9	2764.1	2523.1	2494.2	2537.3	2701.5	2900.1	2908.4	2612.9
50°	3450.8	3491.6	3424.8	3327.3	3148.3	3087.4	3071.5	3151.8	3454.4	3414.7	3135.3
52.5°	4004.4	4025.7	3900.4	3875.6	3916.4	3719.1	3703.1	3722.6	3993.2	3857.3	3526.4
55°	4352.5	4340.1	4293.4	4487.2	4648.5	4402.1	4382.1	4303.4	4440.5	4169.9	3902.8
57.5°	4462.4	4480.1	4588.8	4939.2	5321.0	5111.8	5075.2	4851.8	4763.1	4461.2	4249.1
60°	4413.4	4445.9	4680.5	5201.6	5731.0	5699.7	5668.4	5293.2	4994.8	4704.7	4491.9
62.5°	4064.2	4109.7	4484.9	5154.9	5869.9	6065.5	6026.5	5568.5	5149.0	4822.8	4534.5
65°	3405.9	3439.6	3978.4	4731.3	5672.5	6190.7	6176.5	5654.8	5173.2	4714.7	4243.2
67.5°	2427.9	2542.6	3041.9	3987.3	5088.7	5976.9	6001.1	5551.4	4945.7	4247.3	3514.0
70°	1526.3	1604.3	1962.4	2854.6	4079.5	5243.5	5323.3	5078.1	4292.2	3310.8	2352.4
72.5°	728.0	785.9	1041.2	1806.9	2879.4	4125.6	4188.8	4168.7	3319.1	2085.8	1213.6
75°	324.4	346.2	497.0	922.4	1858.9	2773.1	2936.7	2963.9	2074.0	1020.5	472.1
77.5°	165.4	166.1	232.8	446.7	928.3	1654.5	1687.0	1782.1	1124.5	449.7	164.3
80°	88.0	94.0	123.5	210.9	481.5	814.9	810.7	891.1	498.7	220.4	55.0
82.5°	39.6	43.7	69.7	110.5	235.1	309.1	333.2	364.6	213.9	140.6	24.2
85°	11.8	14.2	34.3	55.5	85.1	89.3	99.8	128.8	121.1	99.8	12.4
87.5°	1.8	1.8	14.2	15.3	12.4	16.0	16.5	18.3	39.0	36.6	6.5
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°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7
2.5°	720.9	716.8	702.0	689.6	678.9	672.4	664.8	660.0	657.6	655.9	656.5
5°	723.8	713.8	688.4	668.3	652.9	636.4	625.1	618.6	615.7	611.0	611.0
7.5°	740.4	724.4	689.0	658.3	631.6	609.2	588.0	580.3	575.0	573.8	572.6
10°	764.1	743.9	695.5	652.9	615.1	584.4	554.3	527.7	507.0	494.5	492.8
12.5°	793.6	764.6	705.5	649.4	601.0	546.5	466.8	413.0	377.0	365.7	367.5
15°	820.7	789.4	715.6	646.4	575.0	453.2	362.8	301.4	283.1	281.3	281.9
17.5°	853.2	816.0	727.4	642.3	503.5	346.2	269.4	252.9	256.4	262.4	261.8
20°	886.9	844.4	741.6	617.5	401.8	260.6	238.1	239.9	245.2	250.6	251.7
22.5°	923.0	876.9	758.1	557.8	306.7	226.9	225.7	228.1	233.4	239.3	240.5
25°	972.6	917.7	770.6	479.8	232.2	209.8	212.1	216.3	221.0	227.5	228.6
27.5°	1036.5	972.6	777.0	378.2	200.9	194.4	195.0	200.9	206.8	212.7	212.7
30°	1119.1	1038.2	764.1	286.0	185.6	179.6	177.3	180.8	188.5	194.4	195.0
32.5°	1193.0	1100.3	729.8	218.6	174.3	166.1	160.1	160.7	163.6	167.2	167.8
35°	1266.9	1160.5	671.3	183.8	162.5	153.1	144.2	139.5	137.1	135.3	137.1
37.5°	1361.4	1235.6	593.3	167.2	152.5	140.6	128.3	118.2	109.9	104.6	105.8
40°	1483.2	1339.6	501.0	156.6	143.0	128.8	112.3	99.3	85.1	80.3	78.0
42.5°	1684.0	1497.3	404.2	147.8	133.6	116.4	95.8	78.0	65.0	60.3	61.5
45°	2001.3	1696.4	311.4	138.3	124.1	102.8	80.3	61.5	50.8	48.5	49.6
47.5°	2422.1	1954.1	239.9	127.6	112.3	88.0	63.2	48.5	42.0	41.3	40.8
50°	2817.9	2194.0	200.3	115.8	98.1	73.3	52.0	40.8	36.6	36.0	36.0
52.5°	3176.0	2365.9	163.1	102.3	82.8	60.3	43.7	36.0	32.5	30.7	30.7
55°	3494.5	2478.2	132.3	85.7	65.0	47.8	37.8	32.5	28.3	26.0	25.4
57.5°	3735.0	2491.7	99.3	68.5	48.5	37.2	32.5	28.3	23.6	20.7	19.5
60°	3837.8	2374.2	73.3	52.0	36.0	29.5	26.0	23.0	17.7	14.8	14.2
62.5°	3734.4	2145.5	54.3	39.6	27.8	21.8	18.3	17.1	12.4	8.8	8.3
65°	3363.9	1815.2	43.1	30.1	20.7	16.0	11.8	11.2	7.7	4.1	3.5
67.5°	2695.0	1421.7	34.3	22.5	14.8	10.6	7.7	7.1	4.1	1.2	1.2
70°	1752.6	908.7	27.8	16.5	9.5	7.1	4.7	3.5	2.3	0.6	0.0
72.5°	866.9	424.9	22.5	13.0	6.5	3.5	1.8	1.2	1.8	0.0	0.0
75°	336.2	151.3	16.5	8.8	3.5	1.8	1.2	0.0	0.6	0.0	0.0
77.5°	111.7	50.2	10.0	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0
80°	41.3	19.5	5.3	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	7.7	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	4.7	2.3	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.5	2.3	1.8	1.2	0.6	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)