

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: P651816

Luminaire Tested: **GALN-SA3A-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651816
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-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 8305.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

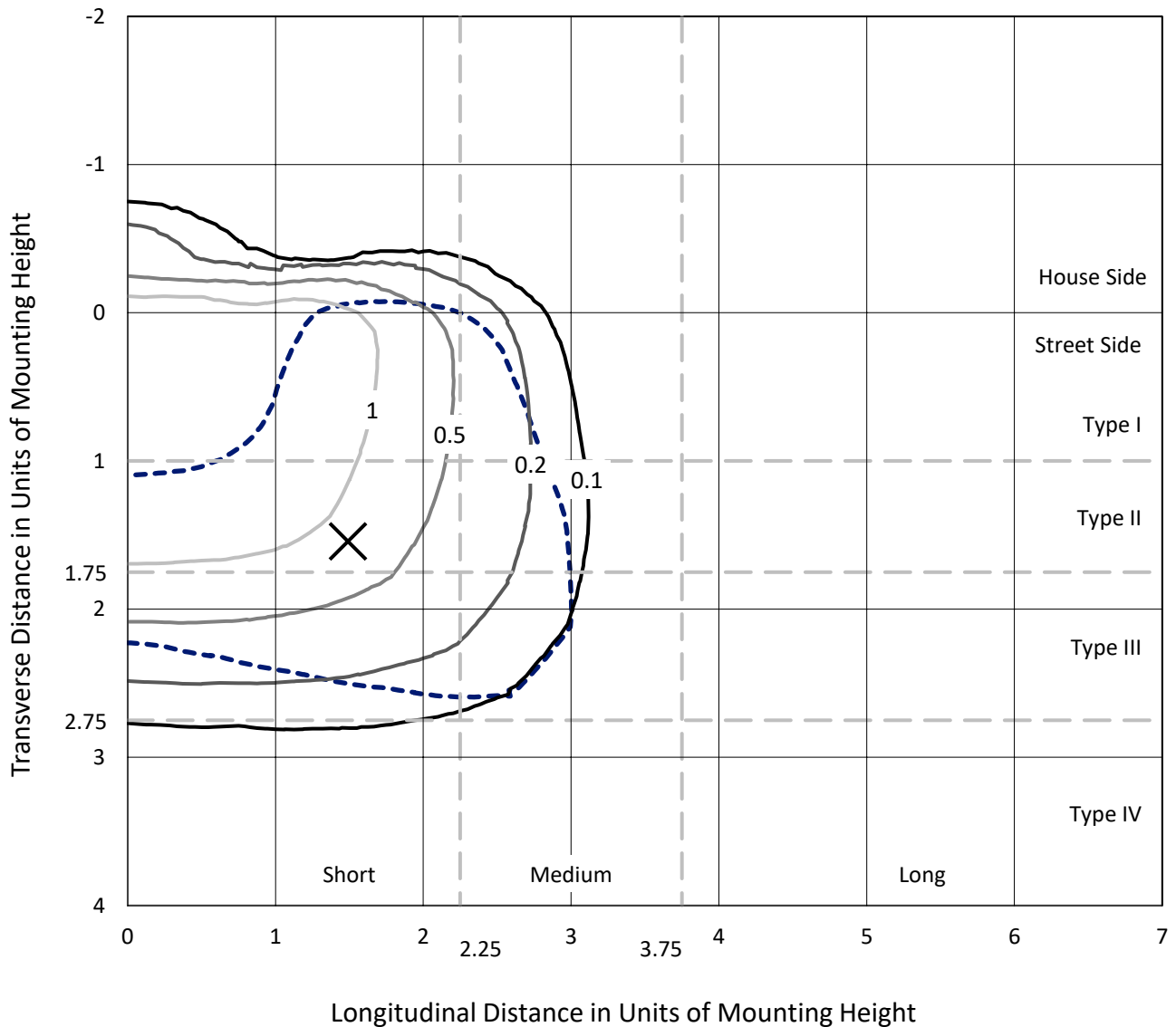
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

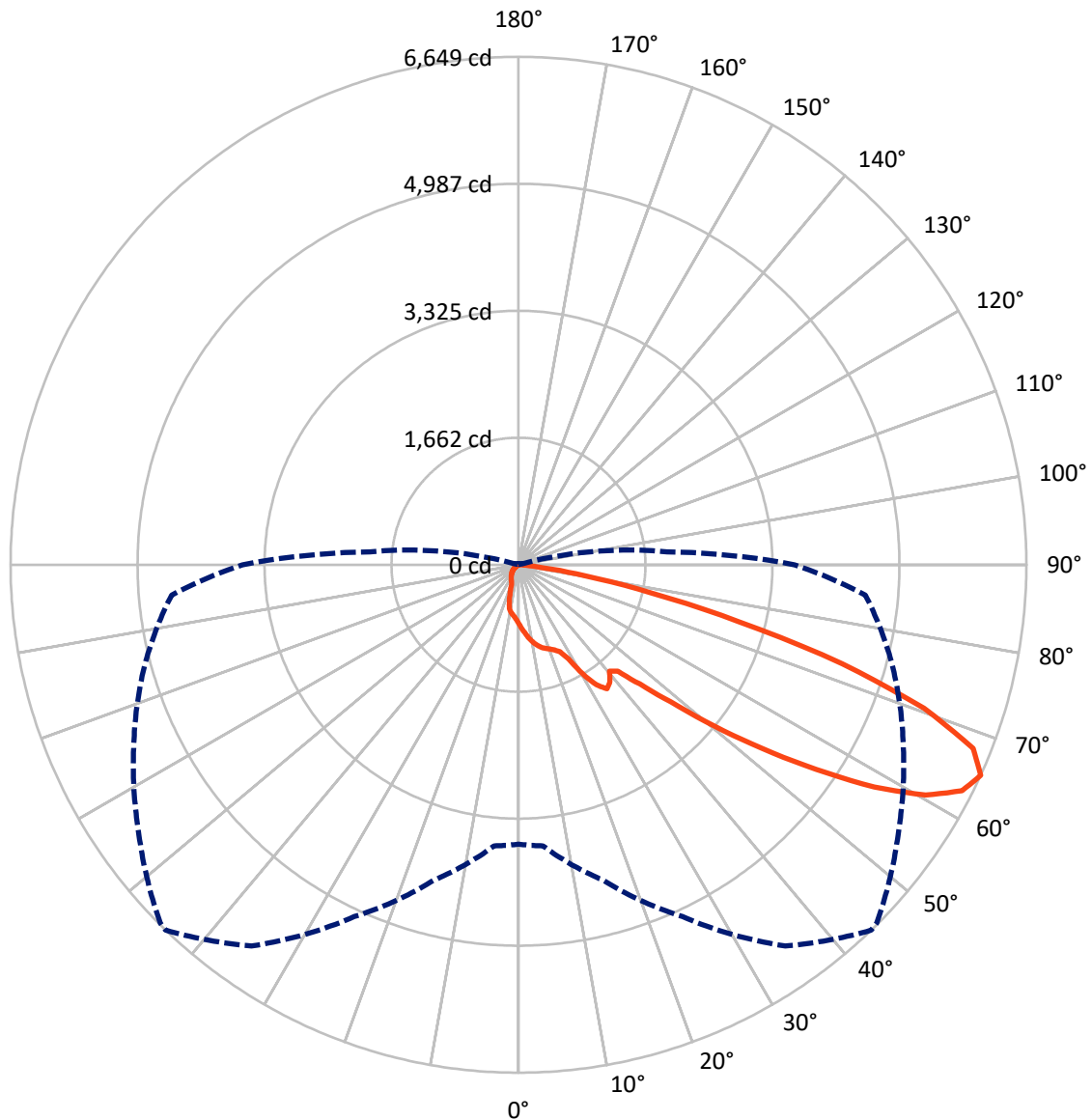
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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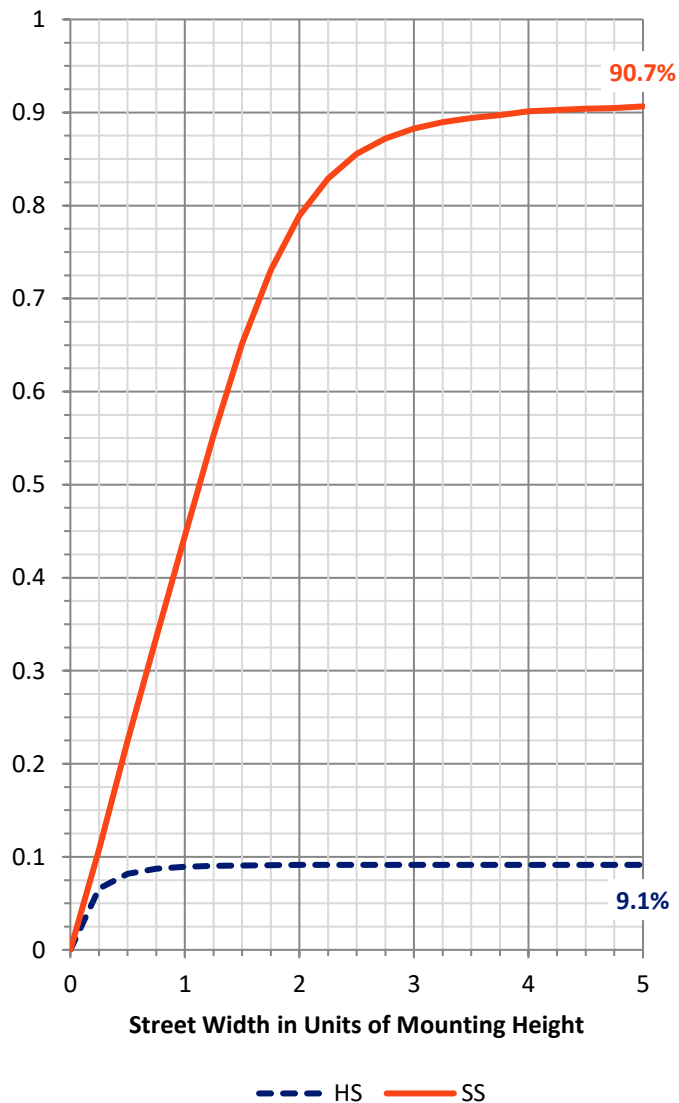
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.2	0.0	765.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7540.5	0.0	7540.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	8305.7	0.0	8305.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.9
10°-20°	231.4	2.8
20°-30°	392.4	4.7
30°-40°	652.4	7.9
40°-50°	1139.1	13.7
50°-60°	2225.3	26.8
60°-70°	2581.9	31.1
70°-80°	940.2	11.3
80°-90°	66.2	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°	8305.7	100.0
0°-180°	8305.7	100.0

Coefficient of Utilization

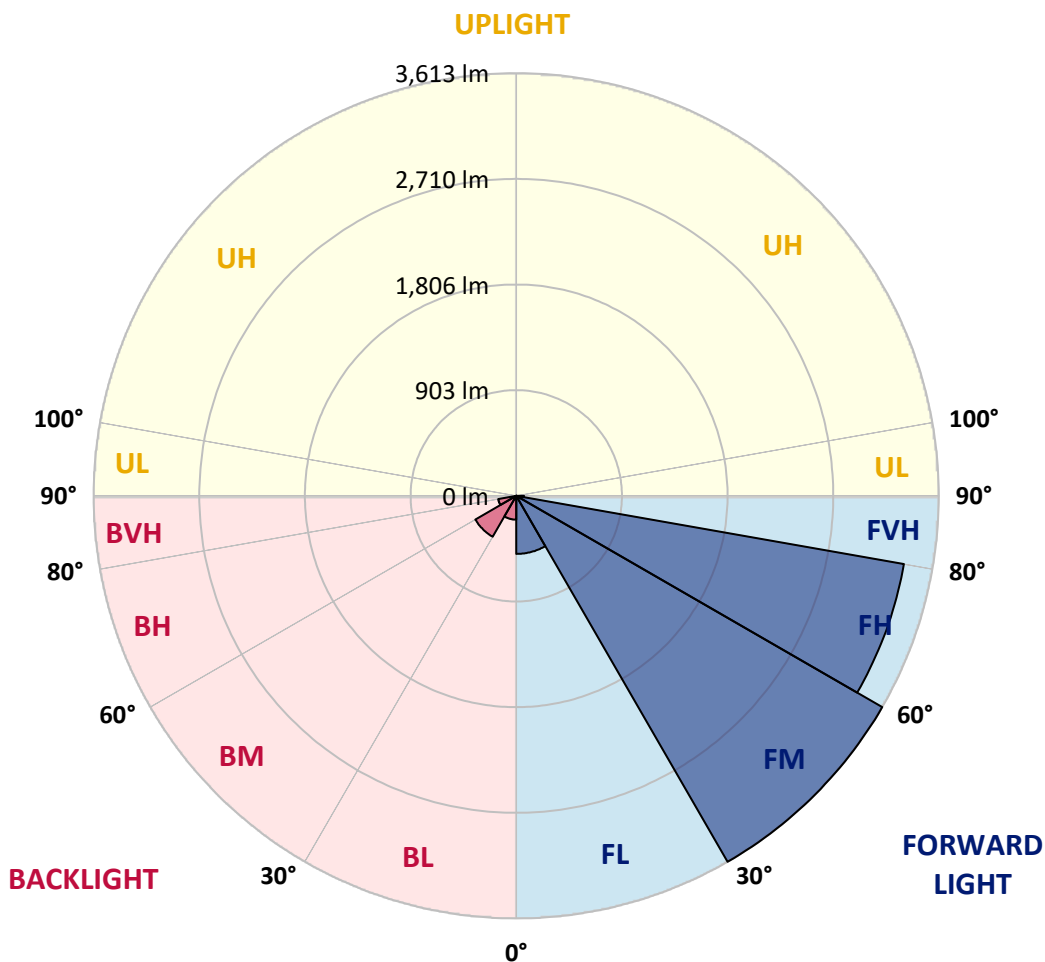


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.8	6.0			
FM (30°-60°)	3613.0	43.5			
FH (60°-80°)	3365.4	40.5			G2/5000
FVH (80°-90°)	65.3	0.8			G1/100
BL (0°-30°)	203.9	2.5	B1/500		
BM (30°-60°)	403.7	4.9	B1/1000		
BH (60°-80°)	156.7	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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°	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0
2.5°	870.1	866.3	864.4	854.3	846.6	837.1	837.1	825.0	811.1	795.8	781.9
5°	967.2	960.8	952.6	943.8	925.9	900.5	900.5	875.2	846.0	820.0	791.4
7.5°	1060.5	1054.8	1040.8	1023.7	994.5	967.8	966.0	929.1	894.2	854.9	814.3
10°	1142.4	1138.0	1125.8	1092.9	1062.4	1027.5	1026.9	985.7	945.0	896.8	846.6
12.5°	1199.5	1200.1	1184.3	1152.5	1113.2	1080.2	1077.7	1037.0	994.5	942.5	880.9
15°	1240.1	1240.1	1223.7	1188.1	1152.5	1123.3	1120.8	1085.2	1041.5	985.0	918.4
17.5°	1251.6	1255.4	1237.6	1205.8	1177.3	1151.9	1151.2	1121.5	1086.6	1032.0	956.5
20°	1247.1	1250.9	1236.9	1212.2	1192.5	1177.9	1176.1	1163.9	1131.6	1080.2	997.1
22.5°	1237.6	1241.4	1231.2	1216.7	1207.1	1211.5	1208.3	1218.5	1201.4	1139.2	1045.3
25°	1239.5	1243.3	1235.7	1227.4	1235.7	1262.9	1271.3	1315.0	1299.8	1214.1	1097.3
27.5°	1299.2	1306.7	1296.0	1299.8	1328.9	1392.4	1408.3	1483.9	1416.6	1309.3	1178.6
30°	1431.8	1426.7	1406.4	1424.8	1526.3	1660.9	1656.4	1644.4	1539.0	1419.1	1275.0
32.5°	1552.4	1547.9	1546.7	1626.0	1810.1	1875.4	1872.2	1755.5	1648.9	1544.7	1370.2
35°	1601.3	1584.1	1580.3	1772.6	2080.4	1994.1	1974.4	1801.2	1782.2	1681.8	1467.3
37.5°	1748.5	1736.4	1677.4	1796.7	1972.5	1944.0	1928.7	1879.9	1924.3	1803.1	1577.1
40°	2051.9	2018.2	1964.9	1848.1	1819.6	1831.6	1846.8	1980.8	2092.5	1968.7	1723.7
42.5°	2428.8	2421.2	2322.3	2104.5	1890.7	1907.1	1926.8	2191.5	2334.3	2218.1	1963.0
45°	2881.4	2892.1	2749.3	2492.3	2211.7	2225.7	2254.3	2502.5	2661.8	2605.9	2339.3
47.5°	3292.6	3284.4	3236.1	2968.9	2710.0	2678.9	2725.3	2901.6	3114.9	3123.8	2806.5
50°	3706.4	3750.2	3678.4	3573.7	3381.5	3316.1	3299.0	3385.3	3710.2	3667.7	3367.5
52.5°	4301.0	4323.9	4189.4	4162.7	4206.5	3994.6	3977.4	3998.4	4289.0	4143.0	3787.6
55°	4674.9	4661.6	4611.5	4819.6	4992.8	4728.2	4706.7	4622.2	4769.5	4478.7	4191.9
57.5°	4792.9	4811.9	4928.8	5305.1	5715.1	5490.5	5451.1	5211.2	5116.0	4791.7	4563.9
60°	4740.3	4775.2	5027.2	5586.9	6155.5	6121.9	6088.3	5685.2	5364.7	5053.1	4824.6
62.5°	4365.2	4414.1	4817.1	5536.7	6304.7	6514.8	6472.9	5981.0	5530.4	5180.1	4870.4
65°	3658.2	3694.3	4273.1	5081.7	6092.7	6649.3	6634.1	6073.7	5556.4	5063.9	4557.5
67.5°	2607.8	2730.9	3267.2	4282.7	5465.7	6419.6	6445.6	5962.6	5312.1	4561.9	3774.3
70°	1639.4	1723.1	2107.7	3066.0	4381.7	5631.9	5717.6	5454.2	4610.2	3556.0	2526.6
72.5°	781.9	844.1	1118.3	1940.8	3092.7	4431.2	4499.1	4477.5	3564.9	2240.3	1303.6
75°	348.4	371.9	533.8	990.7	1996.6	2978.5	3154.3	3183.4	2227.6	1096.1	507.1
77.5°	177.7	178.4	250.0	479.8	997.1	1777.0	1811.9	1914.1	1207.8	483.0	176.4
80°	94.5	100.9	132.6	226.6	517.2	875.2	870.8	957.1	535.6	236.7	59.0
82.5°	42.6	46.9	74.8	118.7	252.6	331.9	357.9	391.6	229.8	151.0	26.0
85°	12.7	15.2	36.8	59.6	91.4	95.9	107.2	138.3	130.1	107.2	13.3
87.5°	1.9	1.9	15.2	16.5	13.3	17.2	17.7	19.7	41.9	39.4	7.0
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°	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0	773.0
2.5°	774.3	769.9	754.0	740.7	729.2	722.3	714.0	708.9	706.4	704.5	705.1
5°	777.4	766.7	739.4	717.8	701.3	683.6	671.5	664.5	661.3	656.2	656.2
7.5°	795.2	778.1	740.0	707.0	678.4	654.3	631.5	623.3	617.5	616.3	615.0
10°	820.6	799.0	747.0	701.3	660.7	627.6	595.3	566.7	544.5	531.2	529.3
12.5°	852.4	821.2	757.7	697.5	645.5	587.0	501.4	443.6	404.9	392.8	394.8
15°	881.5	847.9	768.6	694.3	617.5	486.8	389.7	323.7	304.0	302.1	302.8
17.5°	916.4	876.5	781.3	689.9	540.8	371.9	289.4	271.6	275.4	281.8	281.1
20°	952.6	906.9	796.5	663.2	431.6	279.9	255.7	257.7	263.4	269.1	270.4
22.5°	991.4	941.8	814.3	599.1	329.4	243.7	242.5	245.0	250.7	257.0	258.3
25°	1044.7	985.7	827.6	515.4	249.4	225.3	227.8	232.3	237.3	244.3	245.6
27.5°	1113.2	1044.7	834.6	406.2	215.8	208.8	209.4	215.8	222.1	228.5	228.5
30°	1202.0	1115.1	820.6	307.1	199.3	192.9	190.4	194.2	202.4	208.8	209.4
32.5°	1281.3	1181.8	783.8	234.8	187.2	178.4	172.0	172.7	175.8	179.6	180.2
35°	1360.7	1246.4	721.0	197.4	174.5	164.4	154.8	149.8	147.3	145.3	147.3
37.5°	1462.2	1327.1	637.2	179.6	163.7	151.0	137.8	126.9	118.1	112.4	113.6
40°	1593.0	1438.8	538.2	168.2	153.6	138.3	120.6	106.6	91.4	86.3	83.8
42.5°	1808.7	1608.2	434.1	158.7	143.5	125.1	102.9	83.8	69.8	64.8	66.0
45°	2149.6	1822.1	334.5	148.5	133.3	110.4	86.3	66.0	54.6	52.1	53.3
47.5°	2601.5	2098.8	257.7	137.1	120.6	94.5	67.9	52.1	45.1	44.4	43.8
50°	3026.7	2356.5	215.1	124.4	105.4	78.7	55.8	43.8	39.4	38.7	38.7
52.5°	3411.3	2541.2	175.2	109.8	88.9	64.8	46.9	38.7	34.9	33.0	33.0
55°	3753.4	2661.8	142.1	92.0	69.8	51.4	40.6	34.9	30.4	27.9	27.2
57.5°	4011.7	2676.3	106.6	73.6	52.1	39.9	34.9	30.4	25.4	22.2	20.9
60°	4122.1	2550.1	78.7	55.8	38.7	31.7	27.9	24.7	19.0	15.9	15.2
62.5°	4011.1	2304.4	58.4	42.6	29.9	23.5	19.7	18.4	13.3	9.5	8.9
65°	3613.1	1949.7	46.3	32.4	22.2	17.2	12.7	12.0	8.2	4.5	3.8
67.5°	2894.6	1527.0	36.8	24.1	15.9	11.4	8.2	7.7	4.5	1.3	1.3
70°	1882.4	976.1	29.9	17.7	10.2	7.7	5.0	3.8	2.5	0.7	0.0
72.5°	931.1	456.3	24.1	14.0	7.0	3.8	1.9	1.3	1.9	0.0	0.0
75°	361.1	162.5	17.7	9.5	3.8	1.9	1.3	0.0	0.7	0.0	0.0
77.5°	119.9	53.9	10.8	5.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0
80°	44.4	20.9	5.7	3.2	1.3	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	8.2	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	5.0	2.5	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.8	2.5	1.9	1.3	0.7	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)