

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: P451520

Luminaire Tested: **GALN-SA2B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6057 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

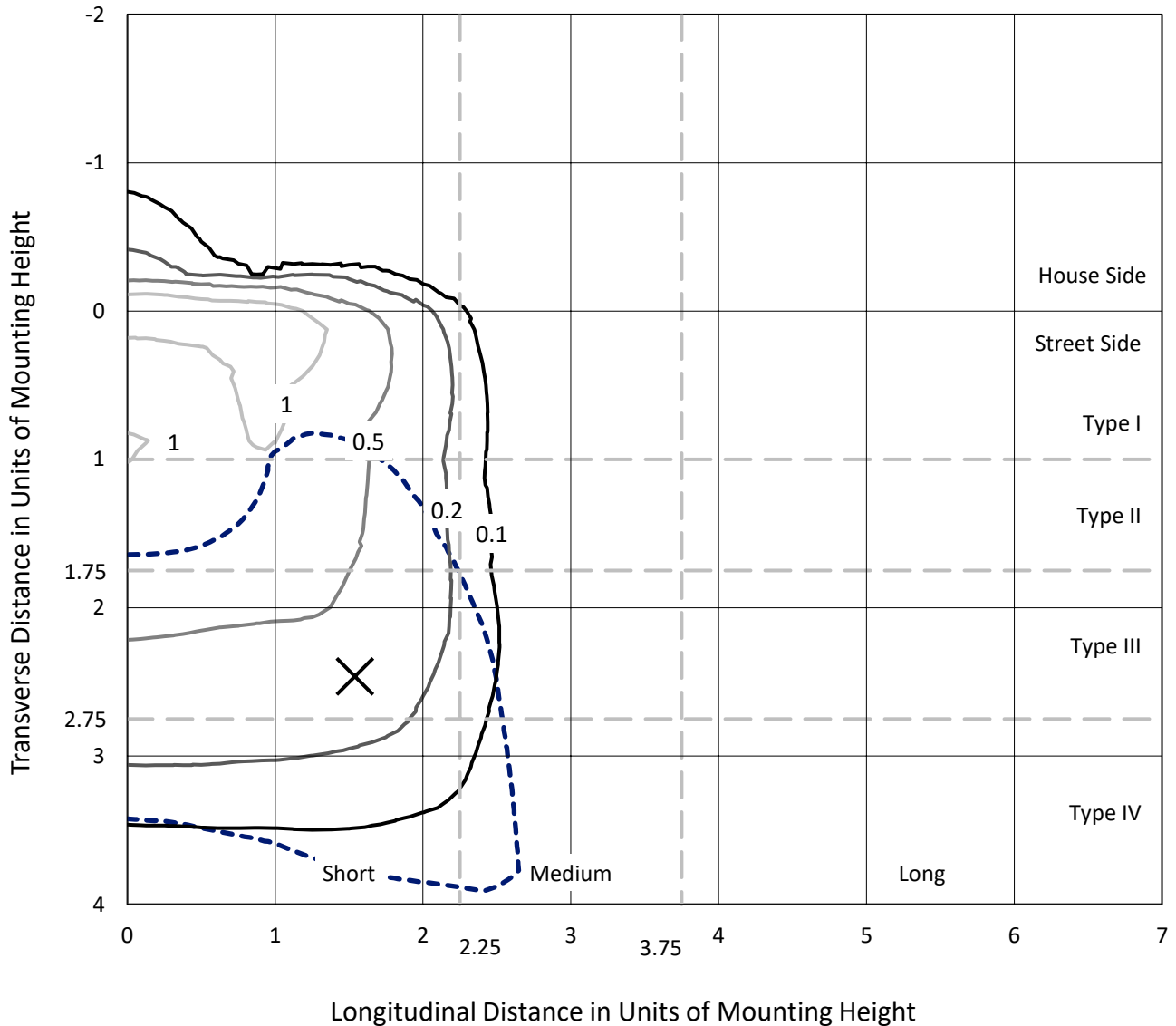
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

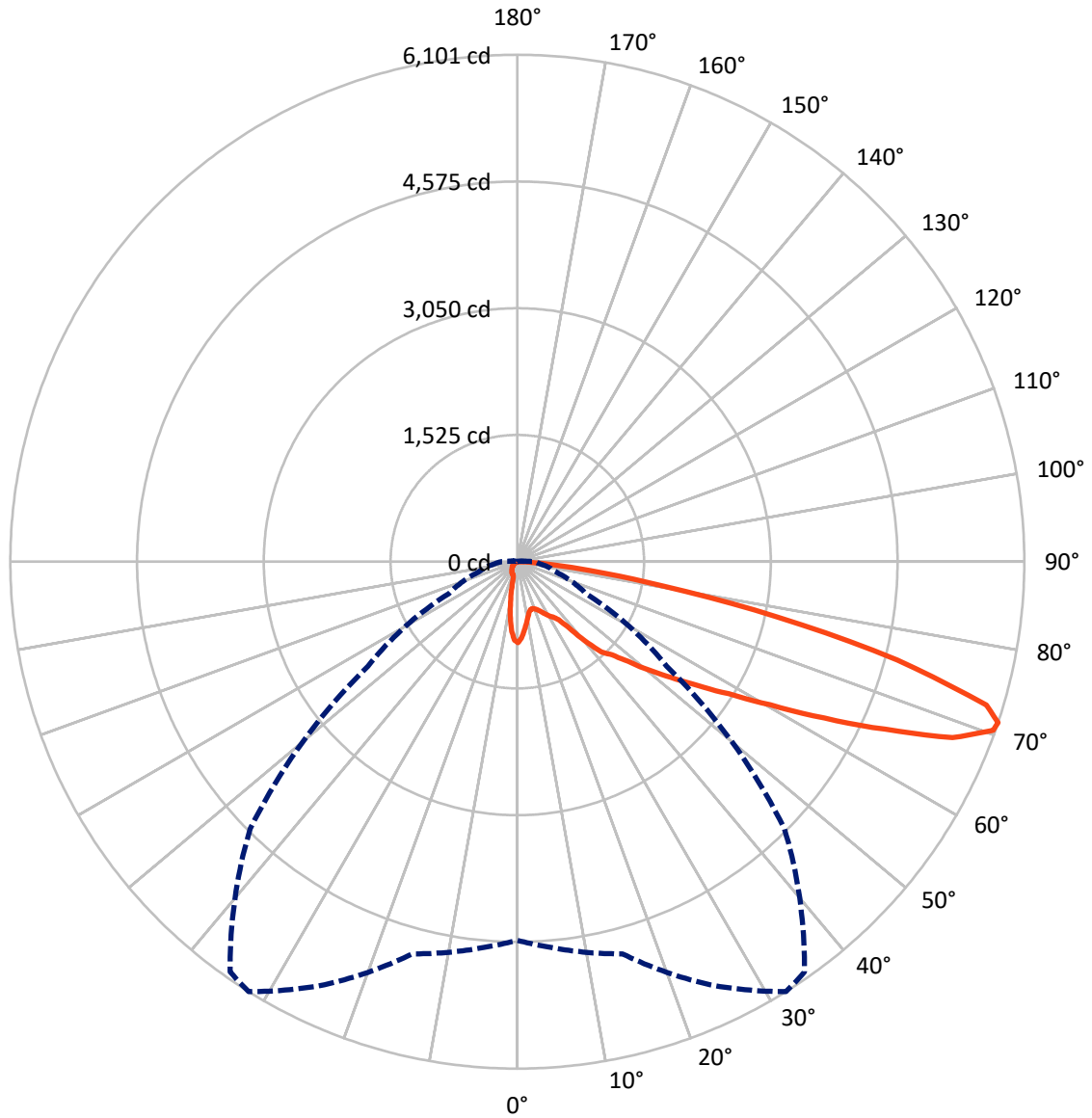
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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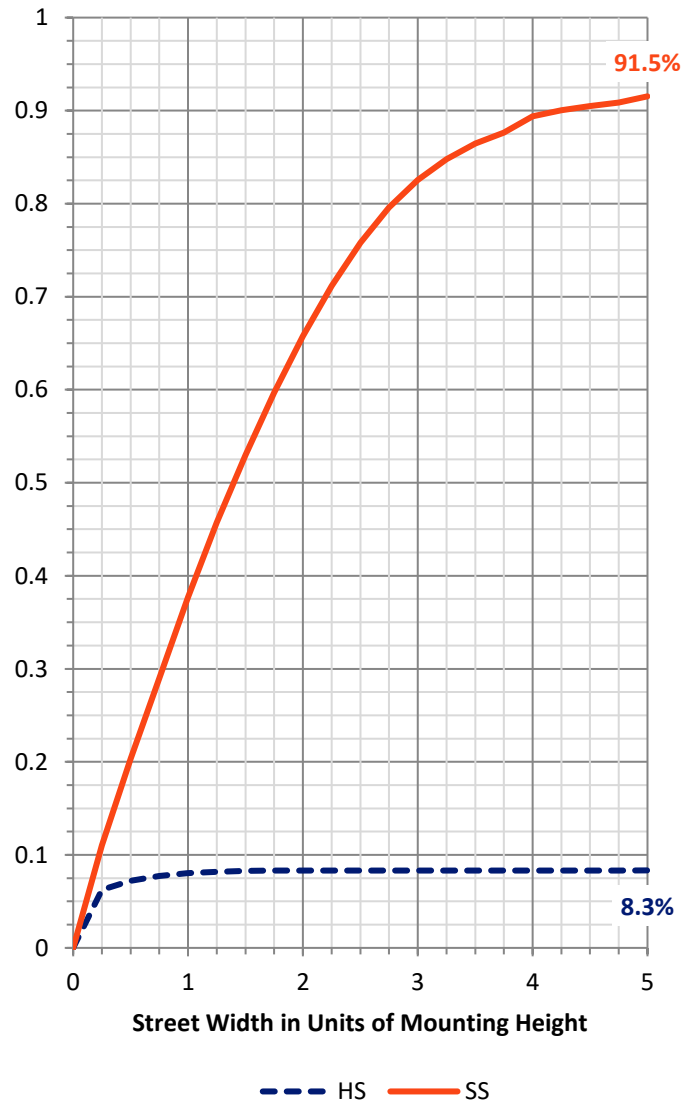
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	507.3	0.0	507.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5549.7	0.0	5549.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6057.0	0.0	6057.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	1.3
10°-20°	171.9	2.8
20°-30°	267.4	4.4
30°-40°	445.5	7.4
40°-50°	828.7	13.7
50°-60°	1330.6	22.0
60°-70°	1789.7	29.5
70°-80°	1061.9	17.5
80°-90°	82.1	1.4
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°	6057.0	100.0
0°-180°	6057.0	100.0



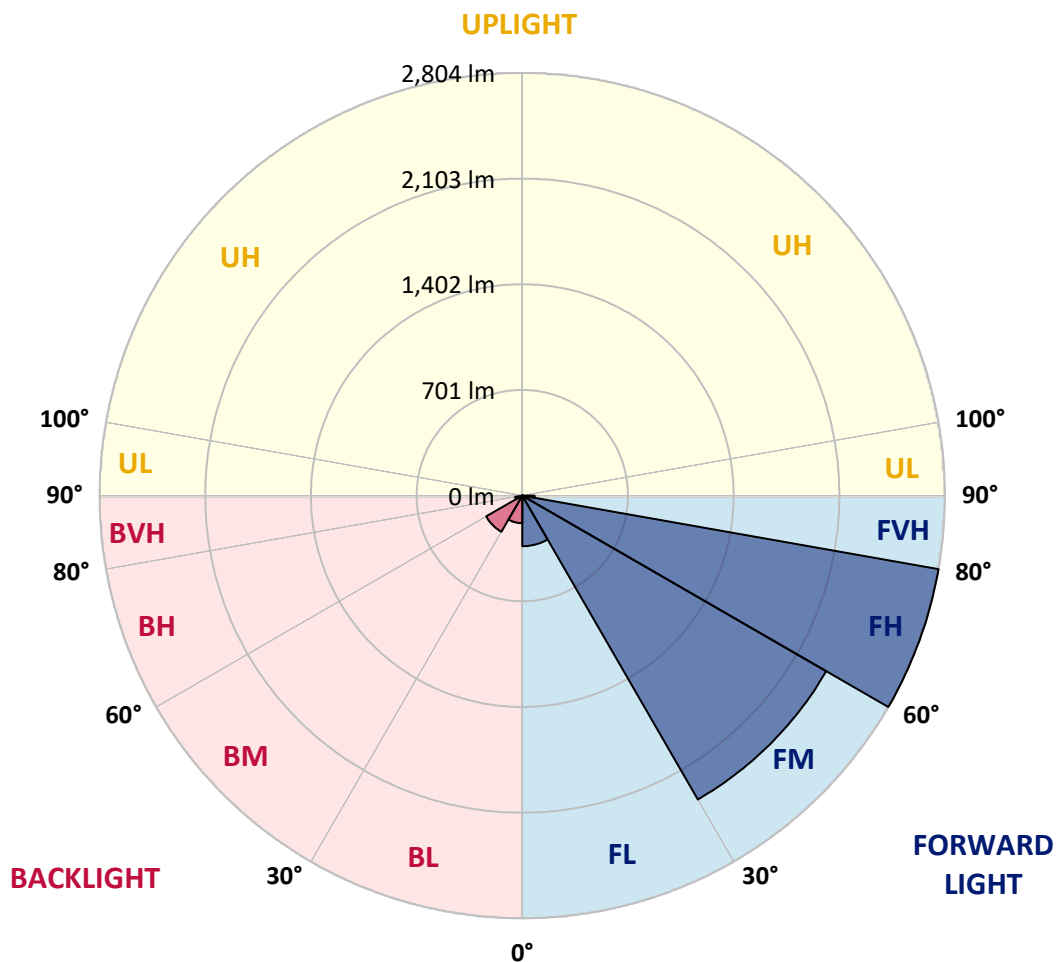
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.7	5.5			
FM	(30°-60°)	2328.1	38.4			
FH	(60°-80°)	2804.1	46.3			G2/5000
FVH	(80°-90°)	81.8	1.3			G1/100
BL	(0°-30°)	182.8	3.0	B1/500		
BM	(30°-60°)	276.8	4.6	B1/1000		
BH	(60°-80°)	47.5	0.8	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	32°	35°	45°	55°	65°	75°	85°
0°	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1
2.5°	903.4	912.7	911.3	914.5	922.5	925.7	934.5	944.3	957.8	967.1	973.1
5°	809.0	816.0	816.9	833.2	841.1	849.9	876.0	904.3	935.9	961.0	977.8
7.5°	708.1	711.8	719.3	740.7	760.7	769.5	809.0	858.3	908.0	955.0	985.2
10°	624.9	629.1	642.6	665.3	683.9	695.6	750.4	812.3	882.0	951.7	995.9
12.5°	577.5	579.8	584.9	605.4	629.1	641.6	700.7	771.3	861.1	953.1	1014.0
15°	574.2	573.3	567.2	575.6	597.0	610.0	667.7	743.4	842.5	957.8	1035.4
17.5°	591.4	589.1	574.7	574.7	592.3	603.0	653.7	728.6	833.2	968.5	1065.7
20°	617.9	614.2	590.5	588.6	605.8	617.0	662.1	729.5	835.0	988.5	1106.1
22.5°	651.4	647.2	611.4	612.3	630.9	642.1	686.3	746.2	846.7	1013.1	1149.3
25°	695.1	690.4	648.1	646.3	665.8	675.6	722.1	776.0	862.9	1043.8	1206.1
27.5°	753.2	743.4	692.8	690.0	710.9	723.5	765.3	816.0	891.8	1086.1	1282.3
30°	801.1	790.4	742.1	734.6	756.9	766.7	809.9	869.9	948.5	1160.0	1387.9
32.5°	863.9	848.1	791.3	771.8	795.5	808.1	874.6	970.3	1032.6	1238.1	1513.4
35°	1005.2	995.4	926.2	857.8	856.4	872.2	969.9	1071.7	1119.1	1360.0	1684.5
37.5°	1207.5	1200.5	1127.0	1035.4	1008.9	1001.5	1085.6	1183.3	1257.2	1527.3	1883.5
40°	1442.3	1426.0	1358.6	1280.9	1246.5	1224.7	1222.3	1349.3	1437.6	1754.7	2090.9
42.5°	1610.6	1580.8	1499.0	1493.4	1486.0	1463.2	1397.2	1592.0	1670.5	1999.3	2312.6
45°	1787.2	1742.1	1620.3	1599.4	1596.6	1595.2	1661.2	1879.3	1924.4	2264.3	2540.5
47.5°	1924.4	1888.6	1788.6	1779.3	1791.0	1822.6	2010.4	2184.3	2175.0	2500.5	2731.6
50°	2107.1	2080.2	1969.0	1986.7	2046.7	2098.3	2404.2	2516.7	2381.0	2686.5	2870.6
52.5°	2322.9	2273.1	2169.9	2217.8	2309.8	2395.9	2822.2	2807.8	2525.6	2826.4	2974.3
55°	2509.8	2474.4	2439.1	2488.9	2626.5	2733.9	3199.8	3025.9	2630.7	2938.9	3019.8
57.5°	2825.9	2817.6	2781.3	2832.0	2998.9	3110.5	3537.8	3195.1	2698.1	2997.5	2966.4
60°	3293.7	3280.2	3212.8	3277.4	3495.0	3670.3	3849.3	3347.1	2713.4	2974.7	2812.5
62.5°	3856.3	3810.2	3752.6	3847.9	4146.4	4223.6	4142.7	3437.3	2656.2	2793.4	2441.4
65°	4381.6	4334.2	4335.6	4536.5	4861.5	4914.0	4484.9	3423.9	2488.9	2339.1	1800.7
67.5°	4783.8	4775.9	4832.6	5224.6	5649.5	5613.3	4790.8	3222.1	1992.8	1516.2	956.9
70°	4804.3	4819.6	4982.4	5644.0	6075.4	6017.8	4764.8	2619.0	1242.3	697.4	377.1
71°	4556.9	4660.1	4885.2	5631.0	6100.5	6025.7	4545.3	2193.6	911.3	486.3	272.0
72.5°	3883.2	3937.6	4424.0	5299.4	5902.0	5742.1	3988.8	1537.6	583.5	297.6	156.2
75°	2138.7	2272.7	2962.6	4157.5	4720.6	4580.2	2599.5	730.4	291.1	162.7	64.6
77.5°	1018.2	992.2	1445.5	2472.6	3200.7	3193.2	1309.8	324.5	169.7	110.2	32.5
80°	291.1	327.3	553.3	1175.4	1777.0	1796.5	503.1	156.7	117.6	86.0	16.7
82.5°	87.9	89.7	203.2	519.8	883.9	833.2	188.8	80.0	84.6	68.3	9.8
85°	15.3	19.1	60.0	183.2	337.1	255.7	47.4	38.1	55.8	45.1	5.6
87.5°	0.9	1.4	20.0	20.9	29.8	17.2	8.4	5.6	12.1	12.1	3.3
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°	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1
2.5°	977.3	980.1	978.2	974.1	967.1	958.7	947.6	938.3	930.4	926.2	931.3
5°	983.4	987.1	977.8	956.9	925.2	890.8	851.8	821.6	797.8	790.4	787.6
7.5°	992.7	995.0	969.9	923.4	856.4	775.1	703.9	643.9	597.5	583.5	563.0
10°	1004.7	1003.4	955.9	869.4	751.8	629.5	519.3	437.5	375.7	353.4	351.5
12.5°	1023.3	1015.9	938.3	796.0	627.2	467.3	331.0	259.0	219.9	206.9	204.1
15°	1046.6	1028.9	910.4	710.0	480.3	301.7	204.1	182.3	177.1	176.2	175.3
17.5°	1074.0	1046.1	873.6	604.4	337.6	195.7	170.6	170.2	170.6	169.7	169.2
20°	1111.2	1064.3	829.9	479.4	223.2	165.1	162.7	162.7	163.2	162.7	162.7
22.5°	1150.7	1085.6	776.0	365.9	168.3	156.7	156.2	157.2	158.1	157.6	157.6
25°	1199.6	1113.5	704.9	250.6	150.6	149.7	150.2	152.0	153.9	154.4	153.9
27.5°	1270.2	1147.9	628.6	172.5	138.1	139.0	143.7	148.3	151.1	151.6	151.6
30°	1349.7	1186.1	529.1	139.9	127.9	127.9	133.4	142.3	148.3	149.2	149.7
32.5°	1452.0	1230.2	418.9	126.0	118.1	117.2	122.3	133.0	144.1	147.4	147.4
35°	1578.5	1282.3	311.5	117.2	111.1	108.8	111.6	120.4	134.8	144.1	145.1
37.5°	1726.8	1331.6	227.8	109.3	104.6	101.4	103.2	110.2	121.8	135.8	139.5
40°	1864.0	1375.3	170.2	102.8	98.1	95.8	97.2	100.4	110.2	123.2	125.5
42.5°	2013.7	1409.2	135.3	95.8	91.6	90.7	90.7	92.1	98.6	106.0	106.5
45°	2162.9	1421.3	113.4	87.4	84.6	85.5	85.1	84.2	86.9	86.0	86.0
47.5°	2269.4	1406.9	93.9	79.5	79.5	80.9	78.6	75.3	73.9	68.3	68.8
50°	2342.4	1354.4	77.2	70.2	73.9	75.8	71.1	66.0	60.9	54.9	53.5
52.5°	2372.6	1260.9	63.2	58.1	65.6	67.9	62.3	56.3	48.4	43.2	41.8
55°	2353.1	1145.6	52.5	47.4	55.3	58.1	52.5	45.6	36.7	31.2	30.2
57.5°	2267.1	1008.0	44.6	37.7	44.2	46.0	42.3	34.9	26.0	20.5	20.5
60°	2118.3	865.7	36.3	29.8	33.0	35.8	32.1	25.1	17.7	12.6	11.6
62.5°	1816.5	703.0	29.3	23.2	23.2	25.6	22.3	18.1	11.2	6.5	6.0
65°	1311.6	482.1	23.2	17.2	16.7	16.7	13.9	12.1	6.5	2.8	1.9
67.5°	712.8	272.0	18.6	13.0	11.6	11.2	8.8	7.0	2.8	0.5	0.0
70°	280.4	104.6	14.4	8.8	7.4	7.0	4.6	3.3	1.9	0.0	0.0
71°	190.2	72.1	12.6	7.4	6.0	5.1	3.7	2.8	1.4	0.0	0.0
72.5°	108.8	44.6	9.8	5.6	4.6	3.7	2.8	1.9	1.4	0.0	0.0
75°	47.4	22.8	6.0	4.2	3.3	2.3	1.9	1.4	0.5	0.0	0.0
77.5°	24.2	12.6	4.2	3.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0
80°	13.5	6.5	2.8	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0
82.5°	7.4	3.7	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.9	0.0	0.0	0.0	0.0	0.5	0.5	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)