

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: P451603

Luminaire Tested: **GALN-SA2C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8681 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

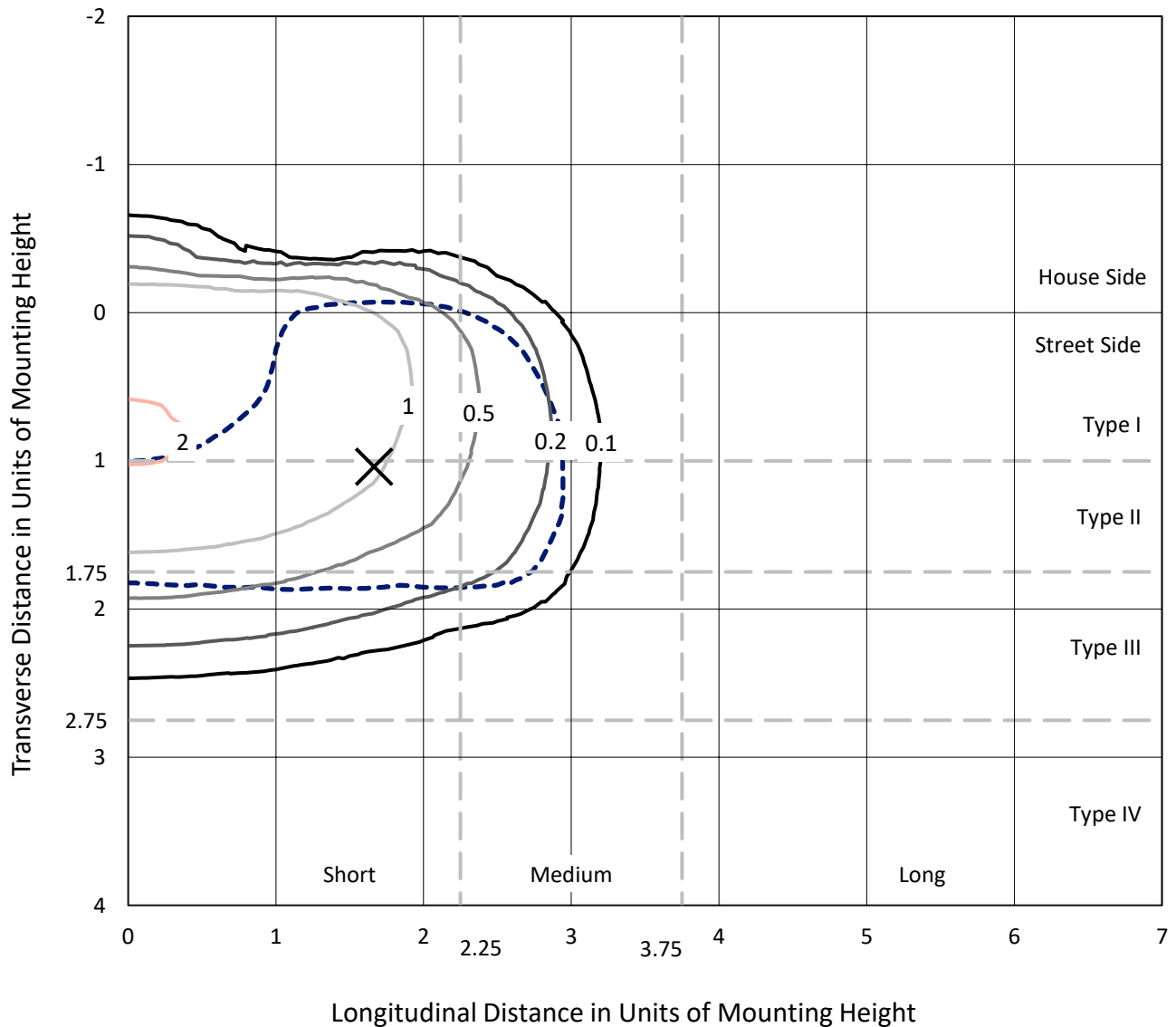
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

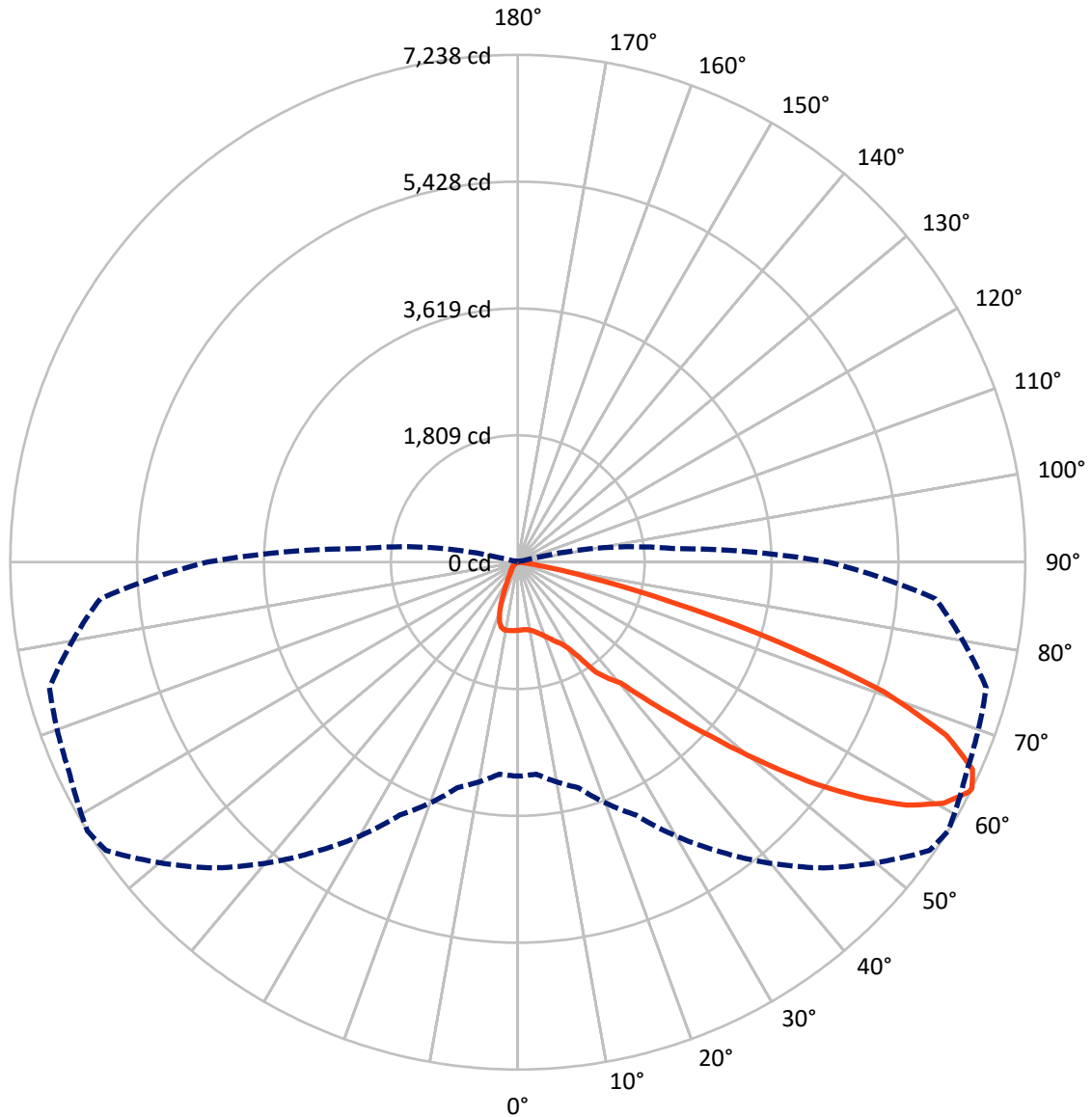
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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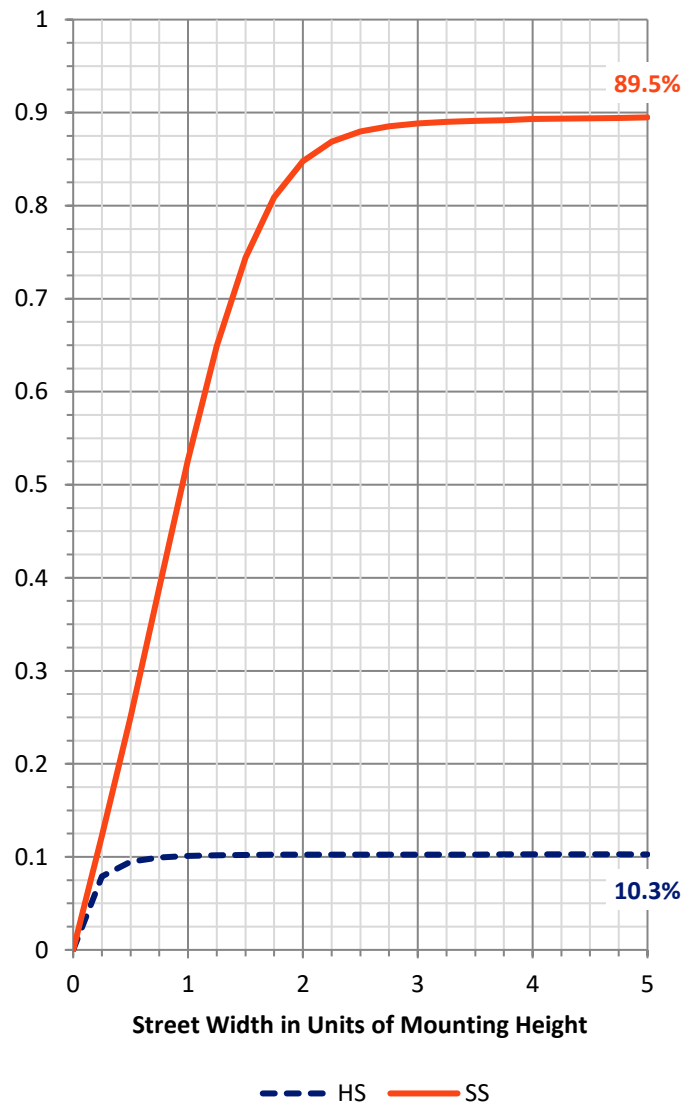
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.9	0.0	898.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7782.1	0.0	7782.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	8681.0	0.0	8681.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.0
10°-20°	247.8	2.9
20°-30°	430.1	5.0
30°-40°	790.3	9.1
40°-50°	1487.7	17.1
50°-60°	2544.6	29.3
60°-70°	2436.5	28.1
70°-80°	621.3	7.2
80°-90°	31.8	0.4
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°	8681.0	100.0
0°-180°	8681.0	100.0



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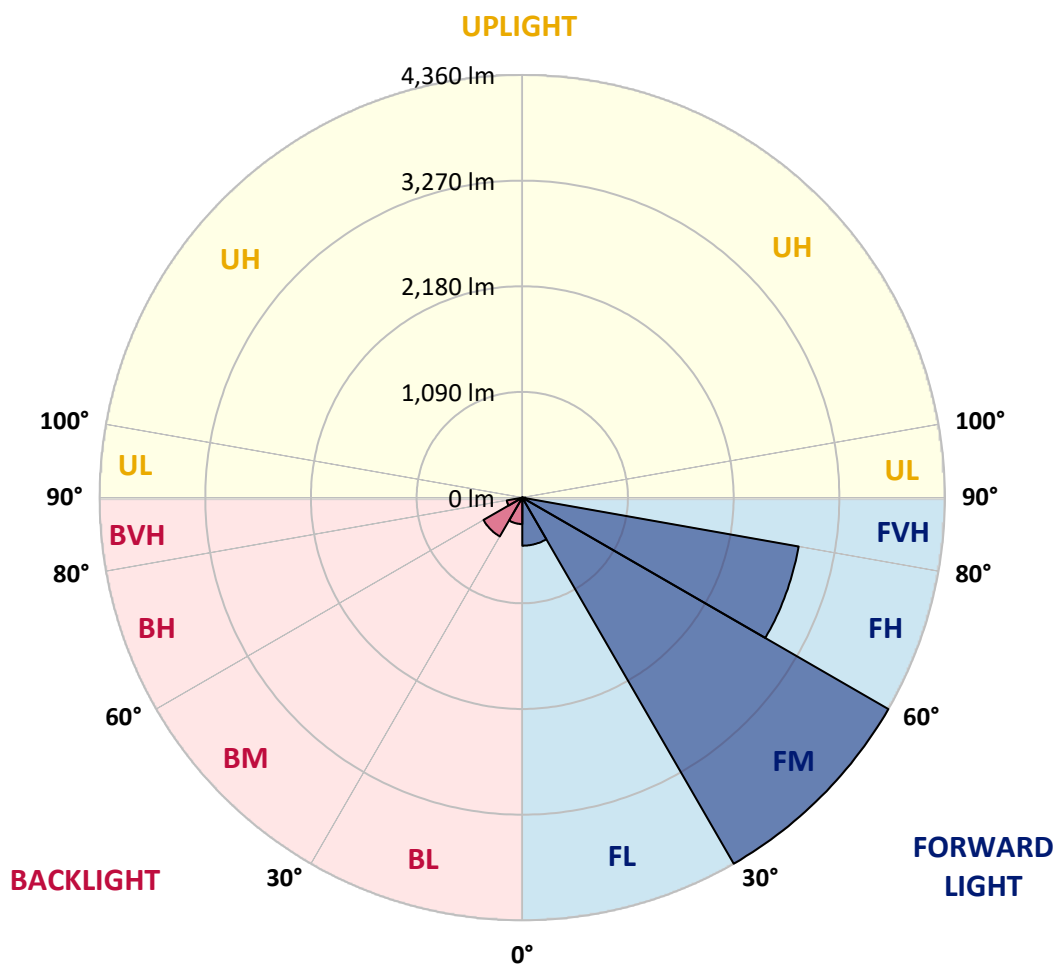
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.2	5.7			
FM (30°-60°)	4360.3	50.2			
FH (60°-80°)	2895.1	33.3			G2/5000
FVH (80°-90°)	30.5	0.4			G1/100
BL (0°-30°)	272.6	3.1	B1/500		
BM (30°-60°)	462.3	5.3	B1/1000		
BH (60°-80°)	162.7	1.9	B1/500		G1/500
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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	947.7	951.0	954.2	955.5	960.1	964.7	968.0	967.3	972.5	975.1	975.1
5°	909.8	909.8	918.3	926.1	939.2	952.3	964.7	967.3	977.1	986.3	989.5
7.5°	877.8	879.7	886.3	900.6	918.3	941.2	966.0	971.9	988.9	1009.1	1017.6
10°	862.7	864.0	872.5	887.6	909.8	941.2	975.8	986.9	1013.0	1045.1	1056.8
12.5°	859.5	861.4	869.9	886.9	912.4	950.3	997.4	1009.1	1047.0	1088.2	1105.9
15°	865.3	866.6	875.1	893.4	921.5	966.6	1026.1	1042.5	1087.6	1135.3	1158.1
17.5°	886.3	884.9	890.8	905.9	937.2	986.9	1060.8	1080.4	1133.3	1198.7	1213.7
20°	975.1	966.6	961.4	948.3	960.8	1015.7	1102.6	1131.3	1196.7	1263.4	1273.8
22.5°	1166.6	1147.7	1110.4	1059.5	1020.2	1054.9	1152.9	1186.2	1270.6	1335.9	1335.9
25°	1410.4	1386.2	1349.0	1237.9	1141.8	1119.6	1209.8	1251.6	1350.9	1417.0	1395.4
27.5°	1715.6	1696.7	1624.1	1494.7	1347.7	1232.6	1275.8	1314.3	1422.2	1501.9	1456.8
30°	1964.0	1954.9	1895.4	1779.7	1617.6	1449.6	1398.7	1424.1	1517.0	1609.1	1562.7
32.5°	2173.8	2173.8	2113.0	2005.2	1853.5	1704.5	1607.2	1625.5	1714.3	1820.9	1734.6
35°	2404.5	2396.7	2347.7	2245.0	2075.1	1943.7	1903.9	1928.7	2009.1	2088.2	1875.8
37.5°	2647.0	2644.4	2593.4	2494.1	2355.5	2190.1	2096.7	2103.2	2144.4	2192.8	2041.1
40°	2910.4	2914.3	2847.6	2786.2	2655.5	2486.2	2307.1	2266.0	2304.5	2441.1	2346.3
42.5°	3221.5	3212.3	3183.6	3099.9	2994.7	2893.4	2678.4	2663.3	2697.3	2843.7	2741.1
45°	3582.9	3596.0	3546.3	3499.9	3429.3	3345.0	3165.3	3139.1	3176.4	3403.8	3258.1
47.5°	3945.0	3932.6	3964.6	3956.1	3994.0	3931.3	3772.5	3718.9	3808.4	4024.1	3809.7
50°	4220.8	4234.5	4301.2	4398.6	4561.3	4596.6	4444.3	4426.0	4465.9	4604.5	4303.2
52.5°	4399.9	4445.6	4550.2	4800.5	5094.0	5322.1	5206.4	5196.6	5180.3	5217.5	4775.0
55°	4516.9	4563.3	4699.9	5068.5	5573.7	5944.3	5950.2	5908.4	5800.5	5773.7	5216.2
57.5°	4445.0	4454.1	4648.9	5141.7	5839.7	6388.1	6580.2	6538.4	6339.1	6237.8	5605.7
60°	3995.3	4014.3	4285.5	4864.6	5724.0	6533.2	6997.9	6978.9	6760.6	6646.2	5909.0
62.5°	3198.6	3253.5	3532.6	4178.3	5186.1	6288.7	7167.1	7220.7	7050.8	6893.3	6004.4
63°	3052.2	3034.6	3329.3	3978.3	5043.7	6167.8	7169.8	7237.7	7063.9	6916.8	5978.3
65°	2259.4	2312.4	2503.9	3137.2	4197.3	5605.1	7008.3	7128.6	7015.5	6812.9	5688.7
67.5°	1268.6	1266.0	1477.7	2052.9	2937.8	4396.6	6337.1	6591.3	6567.8	6113.6	4715.6
70°	620.9	630.7	717.6	1064.0	1703.9	3033.3	5265.9	5540.4	5548.9	4801.8	3260.7
72.5°	281.0	285.6	347.7	518.3	875.8	1615.0	3628.7	3890.8	3842.4	3060.1	1800.6
75°	148.4	158.2	191.5	260.8	422.2	666.0	1973.8	2227.4	2126.1	1398.0	662.7
77.5°	109.8	113.1	130.1	166.0	226.1	259.5	851.6	1013.0	949.0	505.9	219.6
80°	80.4	83.0	96.7	117.6	142.5	132.0	320.9	368.0	330.1	171.9	67.3
82.5°	49.0	49.7	70.6	87.6	89.5	73.9	105.9	113.7	119.0	96.7	36.6
85°	17.6	22.2	47.7	63.4	52.9	37.3	44.4	49.0	53.6	61.4	21.6
87.5°	2.0	2.6	22.9	30.7	15.0	13.7	16.3	18.3	19.6	22.9	10.5
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°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	977.8	980.4	978.4	975.1	974.5	972.5	968.6	968.6	968.6	969.9	968.6
5°	992.1	994.1	989.5	983.0	975.8	966.6	956.8	951.0	950.3	949.0	945.7
7.5°	1019.6	1022.2	1011.7	996.1	976.4	954.2	933.3	913.7	904.6	897.4	897.4
10°	1059.5	1062.1	1041.2	1013.0	973.8	928.7	879.1	834.0	798.7	782.3	778.4
12.5°	1107.2	1108.5	1073.8	1024.8	960.1	873.2	767.3	668.6	600.0	568.6	565.3
15°	1159.4	1150.3	1104.5	1029.4	920.9	758.8	575.8	454.9	383.7	362.7	370.6
17.5°	1212.4	1195.4	1128.1	1022.2	832.7	575.8	386.9	310.4	288.2	282.3	282.3
20°	1262.1	1238.5	1145.1	990.8	679.7	396.7	286.9	268.6	264.7	260.8	261.4
22.5°	1311.7	1275.8	1160.1	920.9	506.5	283.7	256.9	251.0	245.7	240.5	239.9
25°	1360.1	1310.4	1166.0	791.5	345.1	243.8	234.6	226.8	216.3	210.5	209.1
27.5°	1410.4	1352.3	1162.1	628.1	251.6	218.3	209.1	198.0	185.6	175.2	175.2
30°	1507.2	1432.0	1148.3	451.6	211.8	192.2	180.4	162.7	149.0	138.6	137.9
32.5°	1639.2	1535.9	1101.3	317.6	188.2	169.3	151.6	132.0	117.6	109.8	109.8
35°	1756.8	1640.5	1013.0	234.0	169.3	147.1	125.5	106.5	95.4	90.2	88.2
37.5°	1935.9	1793.4	891.5	190.2	151.0	127.4	105.2	87.6	78.4	74.5	74.5
40°	2204.5	1980.3	742.5	166.7	133.3	108.5	87.6	73.9	66.7	62.1	62.1
42.5°	2537.8	2209.1	591.5	149.7	117.0	93.5	73.2	62.7	56.2	52.9	52.3
45°	2957.4	2450.3	455.5	134.0	103.9	79.7	62.1	52.9	46.4	44.4	45.1
47.5°	3395.3	2662.7	352.9	120.3	90.2	67.3	52.9	45.8	41.2	38.6	38.6
50°	3769.2	2809.1	268.0	104.6	79.7	56.9	46.4	41.2	37.3	35.9	35.3
52.5°	4081.6	2851.6	205.2	90.8	69.9	49.0	41.2	37.3	34.0	32.0	32.0
55°	4347.6	2814.3	160.8	76.5	58.8	42.5	36.6	33.3	29.4	27.5	26.8
57.5°	4503.2	2694.7	122.9	63.4	47.7	35.3	32.0	28.1	23.5	20.3	20.3
60°	4581.6	2520.9	94.1	52.3	36.6	28.1	26.1	20.9	16.3	13.7	13.1
62.5°	4487.5	2290.1	71.2	41.2	27.5	20.9	17.6	15.0	10.5	7.8	7.8
63°	4429.3	2223.5	68.6	39.2	25.5	19.6	16.3	13.7	9.2	7.2	6.5
65°	4037.8	1932.6	56.2	31.4	20.3	13.7	11.1	9.8	6.5	3.3	2.6
67.5°	3206.5	1478.4	44.4	23.5	14.4	9.8	6.5	5.9	2.0	0.0	0.0
70°	2167.9	954.9	34.6	17.0	9.8	5.9	3.3	2.6	0.7	0.0	0.0
72.5°	1130.7	489.5	26.8	12.4	5.9	3.9	2.0	0.7	0.0	0.0	0.0
75°	400.0	166.7	19.6	7.8	3.9	2.0	0.7	0.0	0.0	0.0	0.0
77.5°	120.9	62.1	12.4	5.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
80°	42.5	22.9	7.2	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	11.1	4.6	3.3	2.0	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.8	7.2	3.9	3.3	2.0	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	5.2	3.9	3.3	2.6	1.3	0.7	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)