

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: P452127

Luminaire Tested: **GALN-SA3A-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10688 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

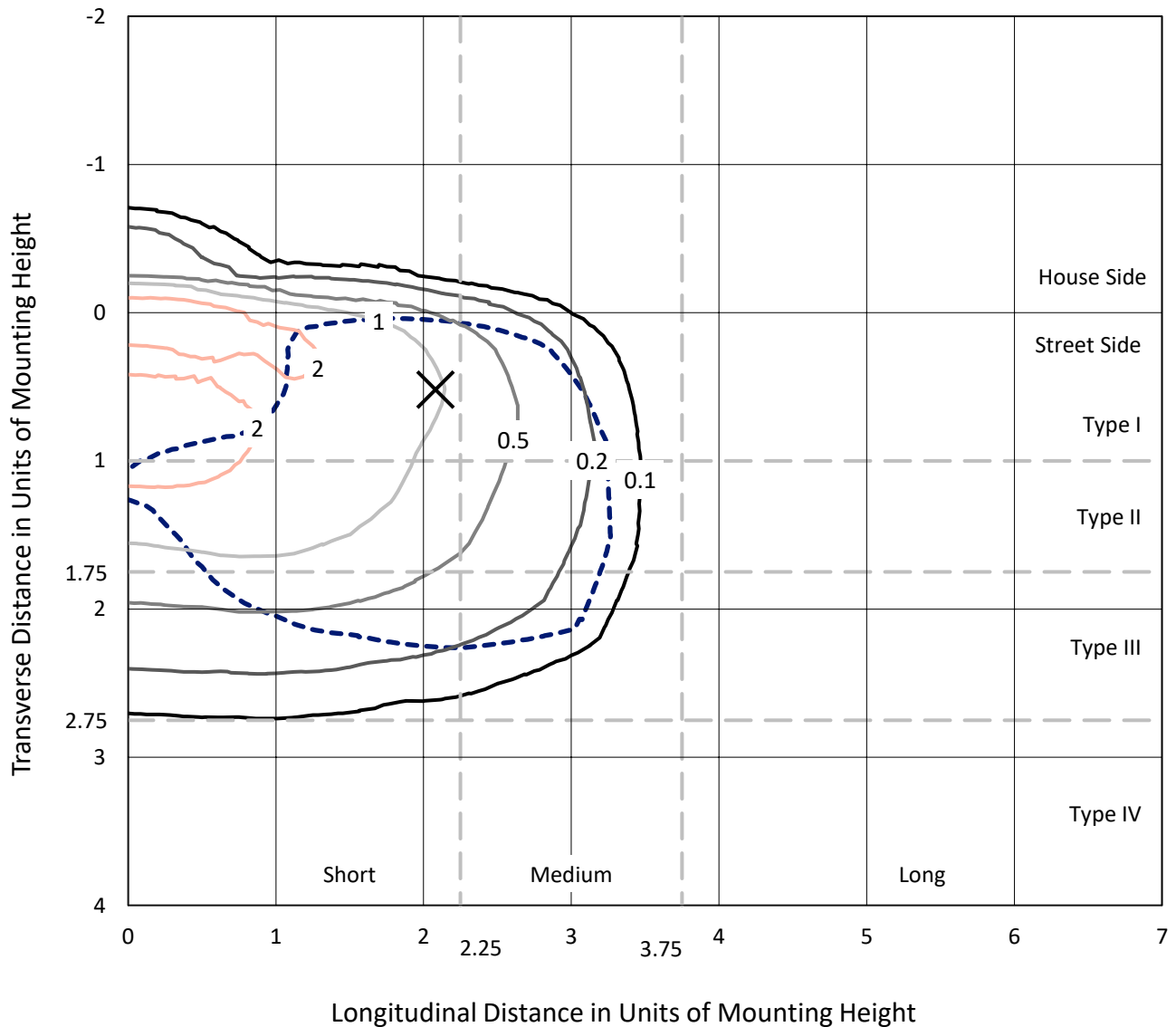
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

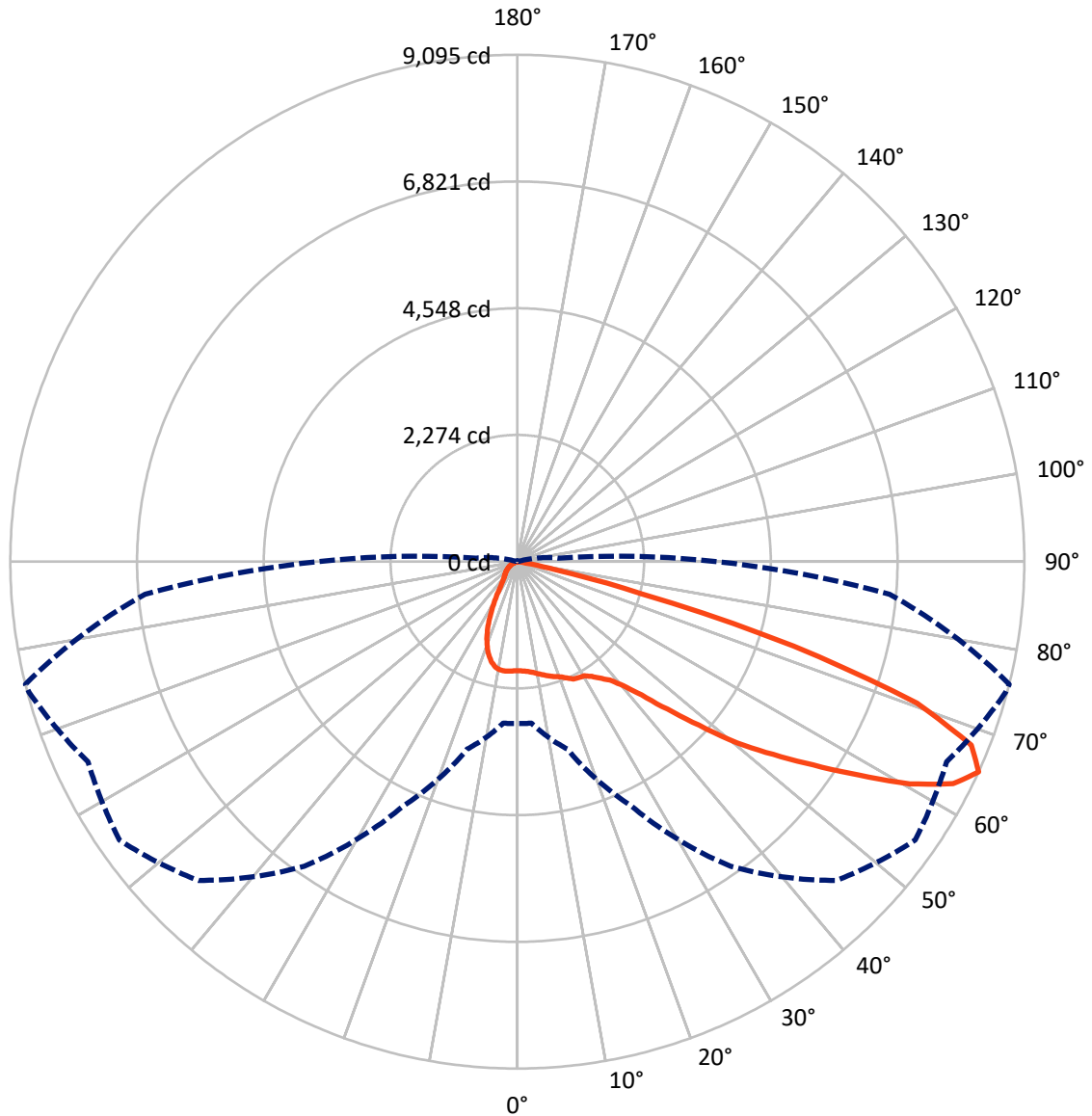
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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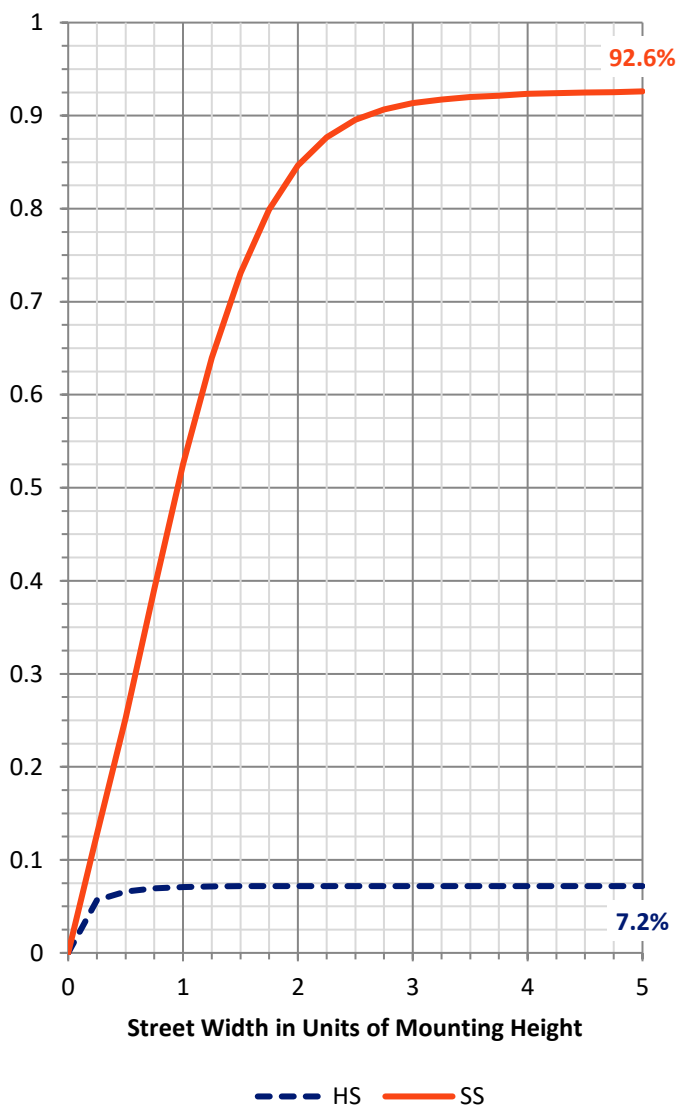
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.9	0.0	771.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9916.1	0.0	9916.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	10688.0	0.0	10688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.5
10°-20°	358.6	3.4
20°-30°	577.9	5.4
30°-40°	1004.8	9.4
40°-50°	1660.3	15.5
50°-60°	2564.9	24.0
60°-70°	3132.1	29.3
70°-80°	1188.7	11.1
80°-90°	39.7	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°	10688.0	100.0
0°-180°	10688.0	100.0

Coefficient of Utilization



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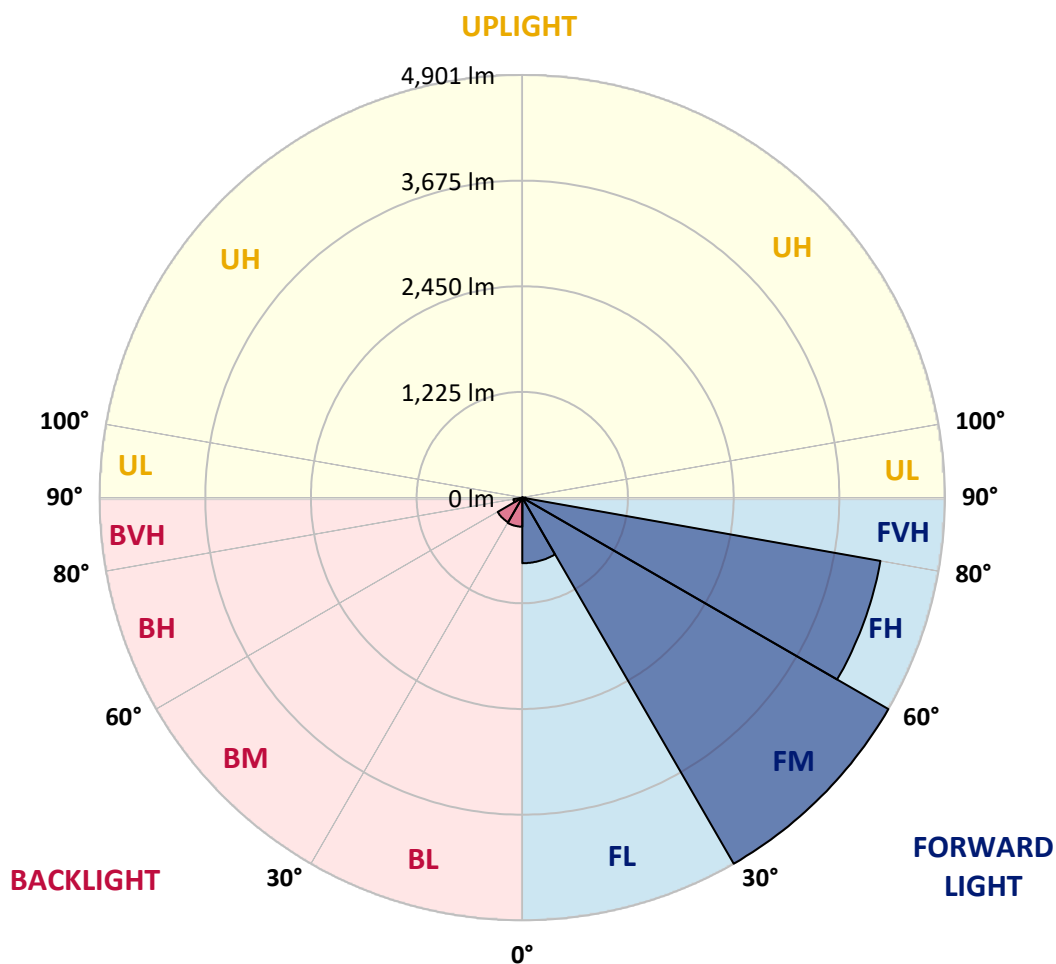
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.3	7.1			
FM (30°-60°)	4900.6	45.9			
FH (60°-80°)	4216.0	39.4			G2/5000
FVH (80°-90°)	39.1	0.4			G1/100
BL (0°-30°)	337.2	3.2	B1/500		
BM (30°-60°)	329.4	3.1	B1/1000		
BH (60°-80°)	104.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	65°	75°	76°	85°
0°	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	1868.4	1869.2	1873.7	1885.0	1902.4	1916.7	1928.8	1948.4	1962.0	1963.5	1968.0
5°	1739.4	1730.3	1739.4	1768.8	1795.2	1835.2	1884.2	1933.3	1977.1	1980.1	2001.2
7.5°	1594.5	1602.0	1616.4	1646.5	1696.3	1757.5	1828.4	1915.9	1998.9	2006.5	2048.0
10°	1447.3	1463.9	1487.3	1533.4	1602.8	1682.0	1778.6	1903.9	2033.7	2044.2	2115.9
12.5°	1311.5	1319.0	1347.7	1409.6	1495.6	1607.3	1740.9	1897.1	2072.1	2085.0	2188.3
15°	1207.4	1217.2	1242.1	1297.9	1393.8	1537.1	1709.9	1894.8	2109.9	2128.0	2260.8
17.5°	1187.7	1193.8	1204.3	1242.1	1325.8	1481.3	1682.0	1894.1	2146.1	2168.0	2328.0
20°	1268.5	1263.2	1252.6	1248.9	1294.9	1438.3	1661.6	1900.1	2180.8	2205.7	2398.9
22.5°	1470.7	1477.5	1415.6	1342.4	1327.3	1431.5	1658.6	1928.8	2235.9	2265.3	2478.1
25°	1900.1	1848.0	1751.4	1576.4	1444.3	1473.0	1692.6	1996.7	2300.0	2332.5	2549.8
27.5°	2374.7	2358.9	2208.7	1920.5	1674.5	1560.5	1752.9	2048.7	2321.2	2354.4	2590.6
30°	2841.1	2859.9	2687.9	2369.5	2008.8	1722.8	1809.5	2068.4	2340.0	2374.7	2642.6
32.5°	3273.5	3296.1	3145.2	2829.8	2402.7	2003.5	1906.9	2144.6	2419.3	2454.7	2729.4
35°	3613.8	3616.8	3502.9	3251.6	2832.8	2344.6	2117.4	2278.1	2526.4	2567.9	2821.5
37.5°	3926.2	3921.7	3788.1	3571.5	3191.2	2683.4	2382.3	2432.1	2648.7	2691.7	2954.3
40°	4157.9	4160.9	4117.9	3914.1	3525.5	2996.5	2592.1	2576.2	2853.9	2921.1	3147.4
42.5°	4312.6	4340.5	4361.6	4258.2	3945.8	3382.1	2914.3	2884.8	3210.1	3265.9	3420.6
45°	4437.8	4487.6	4593.3	4588.0	4349.5	3855.3	3356.5	3296.1	3714.9	3774.5	3768.5
47.5°	4529.1	4579.7	4754.8	4860.4	4729.1	4314.1	3912.6	3860.5	4317.8	4382.7	4152.6
50°	4575.9	4636.3	4859.6	5064.1	5025.7	4756.3	4546.5	4549.5	5046.0	5108.7	4597.8
52.5°	4466.5	4545.0	4915.5	5283.7	5358.4	5179.6	5140.4	5240.0	5694.2	5747.8	5000.0
55°	4117.1	4216.0	4839.3	5470.9	5744.0	5679.1	5815.0	5966.6	6402.8	6437.5	5412.8
57.5°	3896.0	4000.9	4614.4	5630.1	6207.4	6307.0	6522.0	6633.0	7134.0	7222.3	5886.7
60°	3709.6	3791.9	4429.5	5664.0	6678.2	7075.2	7284.2	7398.9	8036.5	8093.9	6408.1
62.5°	3399.5	3493.8	4117.1	5427.1	6915.2	7690.2	8123.3	8072.0	8734.5	8774.5	6728.0
65°	2900.7	2909.0	3483.2	4831.7	6670.7	8089.3	8712.6	8497.6	9068.1	9095.2	6703.1
67.5°	2165.0	2244.9	2679.6	3797.9	5634.6	7748.3	8903.6	8508.9	8857.5	8782.1	6171.1
70°	1394.5	1455.6	1816.3	2633.6	4062.8	6466.2	8270.4	7925.6	7773.9	7606.4	5051.3
72.5°	643.7	722.2	1079.1	1504.7	2409.4	4606.1	6713.7	6439.0	5595.4	5181.9	3210.8
75°	280.7	300.3	532.7	793.8	1129.6	2435.9	4426.5	3997.1	2527.2	2308.3	1285.1
77.5°	171.3	184.1	279.2	425.6	443.7	928.2	2384.5	1743.9	781.0	689.0	348.6
80°	116.2	130.5	203.0	222.6	151.7	258.8	895.0	465.6	157.7	150.9	74.7
82.5°	56.6	71.7	150.2	124.5	65.7	83.0	260.3	99.6	46.0	43.0	26.4
85°	8.3	14.3	84.5	81.5	29.4	19.6	46.0	24.9	15.8	15.1	12.1
87.5°	0.0	0.0	28.7	12.8	3.0	3.0	5.3	5.3	6.0	5.3	6.0
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°	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	1970.3	1974.0	1959.7	1939.3	1917.4	1895.6	1864.6	1836.7	1820.1	1829.9	1805.8
5°	2005.7	2002.7	1965.0	1903.1	1820.9	1722.0	1623.9	1540.1	1513.0	1472.2	1467.7
7.5°	2054.8	2046.5	1966.5	1824.6	1639.0	1453.4	1272.3	1152.3	1083.6	1025.5	1027.0
10°	2123.5	2099.3	1949.1	1686.5	1380.9	1101.0	870.1	711.6	642.9	621.0	603.7
12.5°	2194.4	2147.6	1900.8	1500.2	1075.3	752.3	529.0	432.4	390.1	376.5	375.0
15°	2257.8	2183.8	1816.3	1276.0	781.8	480.7	360.7	329.0	323.7	324.5	323.7
17.5°	2320.4	2212.5	1699.4	1038.3	531.2	344.9	310.1	302.6	304.9	307.9	307.1
20°	2372.5	2218.5	1550.0	792.3	375.8	302.6	291.3	289.8	292.0	294.3	294.3
22.5°	2429.1	2223.1	1372.6	548.6	307.1	281.5	275.4	275.4	278.4	281.5	282.2
25°	2471.3	2198.2	1160.6	393.9	270.9	261.1	258.1	258.8	261.8	263.4	262.6
27.5°	2478.1	2128.0	935.7	301.8	246.0	236.2	233.2	236.2	232.4	234.7	233.2
30°	2484.2	2038.9	707.8	254.3	223.4	208.3	203.7	199.2	196.2	192.4	191.7
32.5°	2503.0	1934.0	516.9	228.6	202.2	185.6	175.1	162.2	152.4	149.4	148.7
35°	2511.3	1808.0	379.6	208.3	183.4	165.3	146.4	128.3	113.9	108.7	112.4
37.5°	2543.0	1685.8	294.3	193.2	166.8	144.1	120.0	97.3	83.8	80.7	82.3
40°	2607.9	1553.0	246.8	180.4	152.4	124.5	95.1	73.2	64.1	61.1	60.4
42.5°	2712.0	1420.9	219.6	168.3	138.1	104.9	74.7	57.3	49.8	47.5	47.5
45°	2838.8	1294.1	200.7	155.4	123.0	84.5	58.9	46.0	41.5	40.0	40.0
47.5°	3005.6	1183.2	184.9	142.6	106.4	67.2	47.5	40.0	37.0	37.7	38.5
50°	3174.6	1101.0	167.5	128.3	87.5	55.1	40.7	35.5	34.7	35.5	35.5
52.5°	3302.1	1052.7	144.1	108.7	68.7	46.0	36.2	33.2	32.4	30.9	30.9
55°	3474.2	1042.1	114.7	88.3	54.3	38.5	32.4	30.2	27.9	26.4	25.7
57.5°	3695.3	1054.2	88.3	68.7	42.3	31.7	28.7	24.9	21.9	18.9	18.9
60°	3832.6	1027.0	68.7	52.8	30.9	25.7	21.9	18.1	14.3	12.1	11.3
62.5°	3788.9	912.3	54.3	39.2	21.9	18.9	14.3	12.1	8.3	6.0	5.3
65°	3563.2	736.5	43.8	27.2	15.8	11.3	7.5	7.5	3.8	0.8	0.0
67.5°	3118.8	545.6	34.7	18.1	9.1	5.3	3.8	2.3	0.0	0.0	0.0
70°	2538.5	393.9	27.2	11.3	5.3	3.8	1.5	0.8	0.0	0.0	0.0
72.5°	1611.8	225.6	21.1	6.8	3.8	1.5	0.0	0.0	0.0	0.0	0.0
75°	623.3	88.3	14.3	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	176.6	41.5	8.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.0	18.1	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.8	0.0	0.0	0.0	0.0	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)