

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: P652306

Luminaire Tested: **GALN-SA3B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652306
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-SA3B-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 11184.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

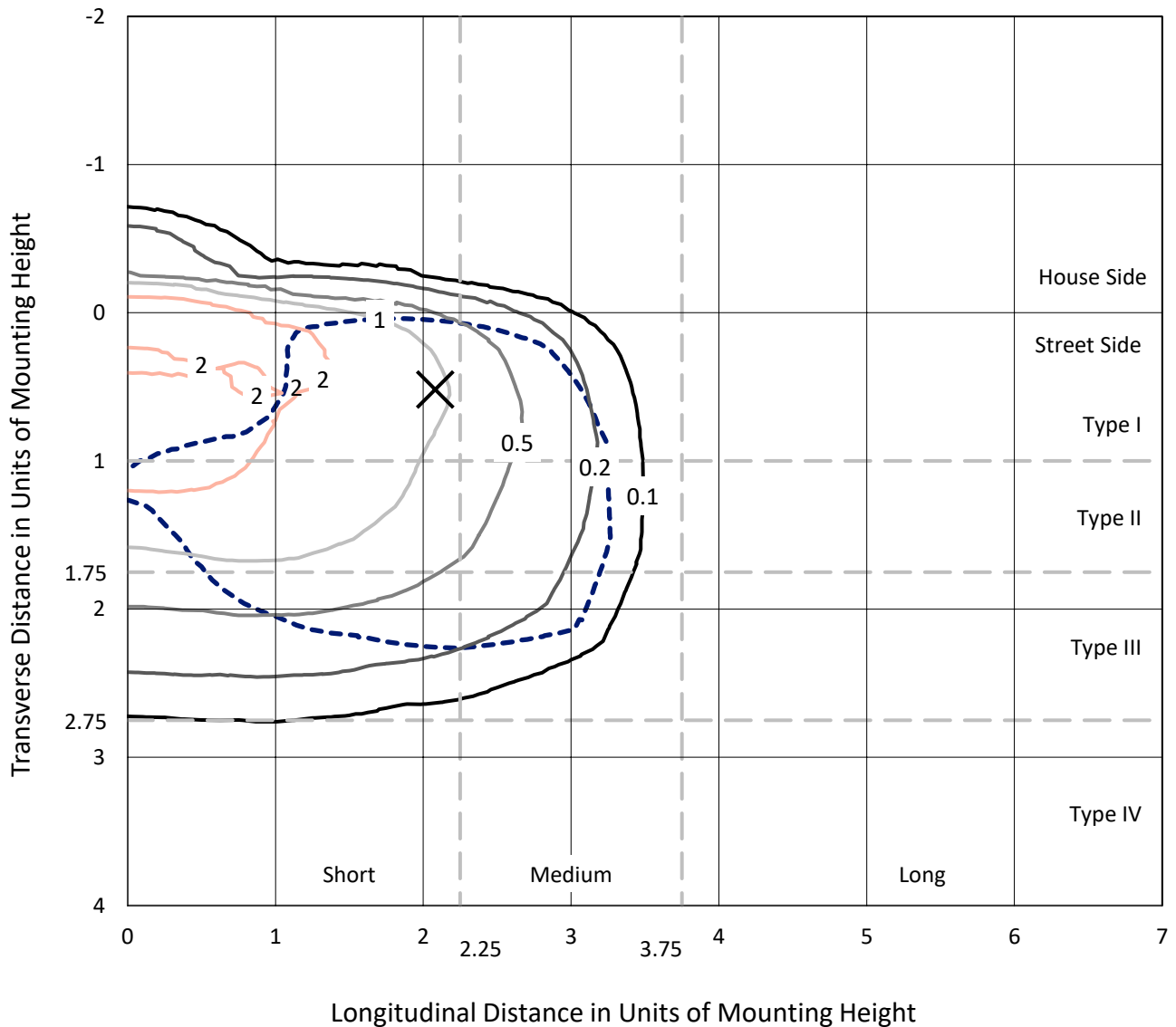
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

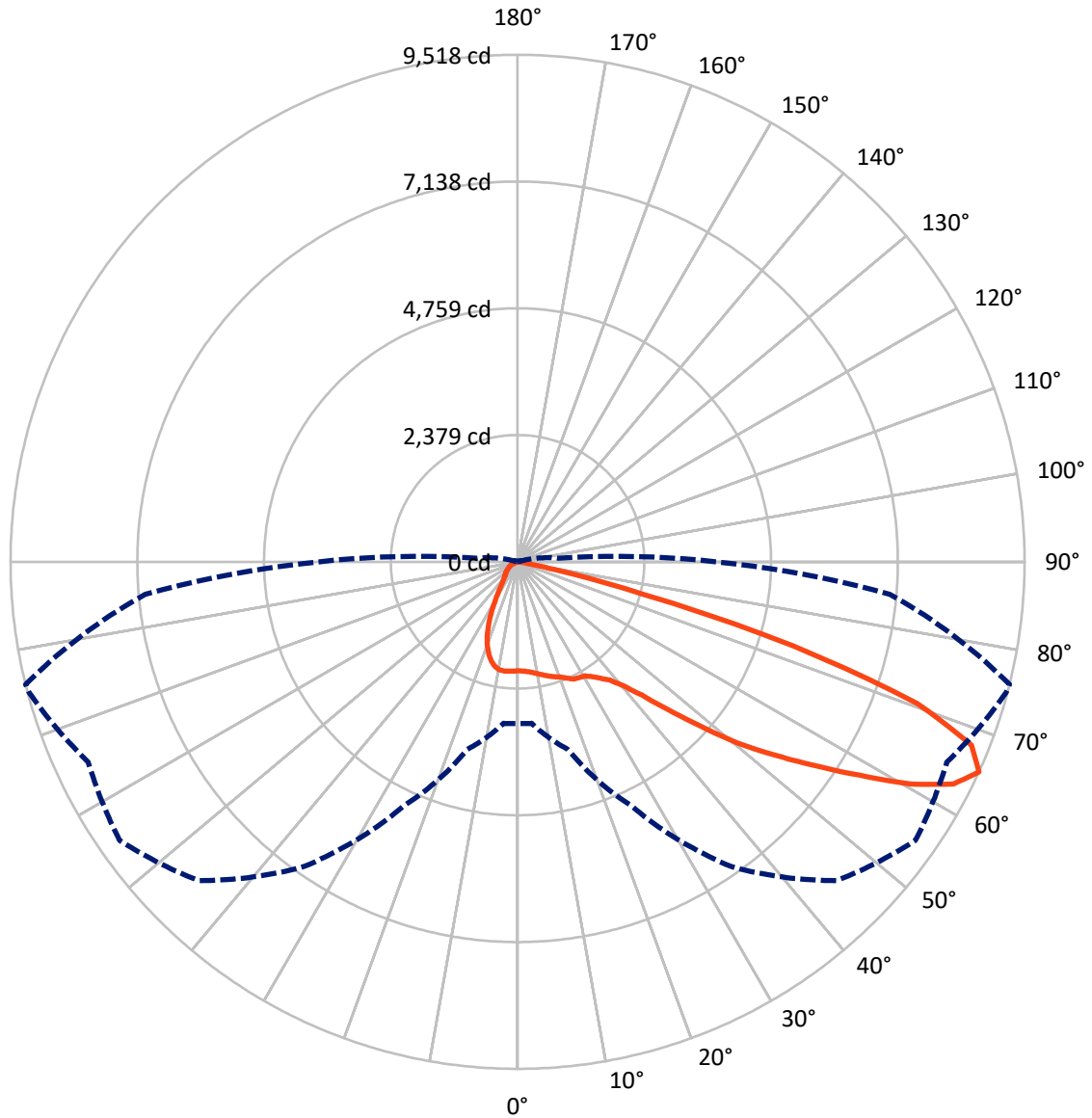
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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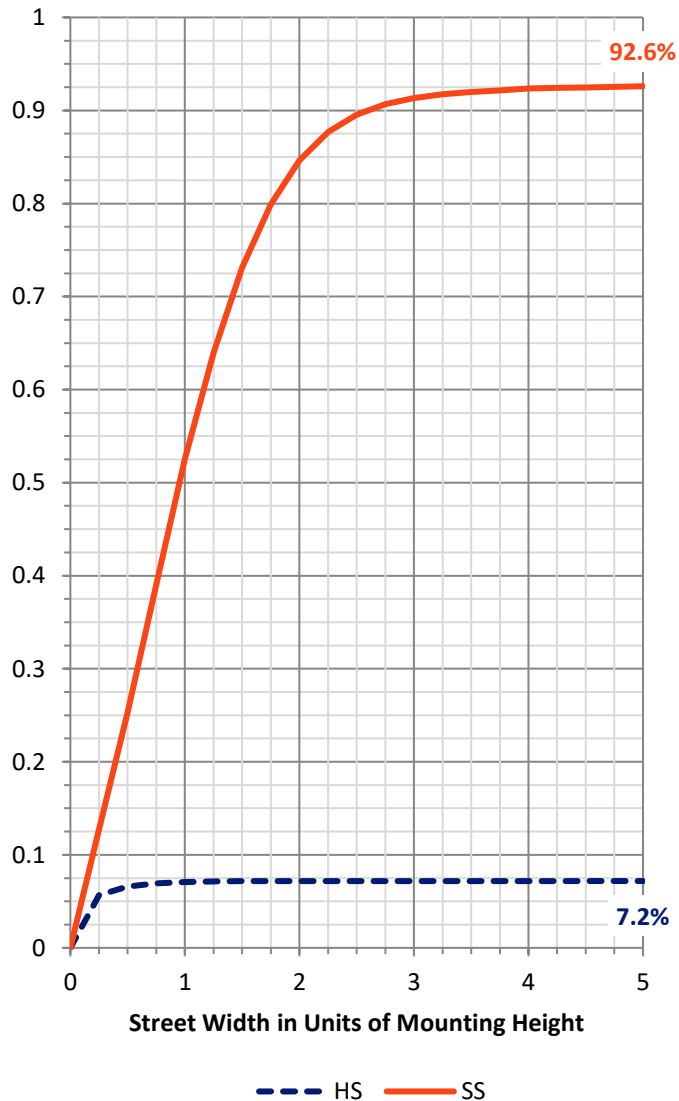
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.7	0.0	807.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10376.7	0.0	10376.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	11184.5	0.0	11184.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.5
10°-20°	375.3	3.4
20°-30°	604.7	5.4
30°-40°	1051.5	9.4
40°-50°	1737.5	15.5
50°-60°	2684.0	24.0
60°-70°	3277.6	29.3
70°-80°	1243.9	11.1
80°-90°	41.5	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°	11184.5	100.0
0°-180°	11184.5	100.0

Coefficient of Utilization



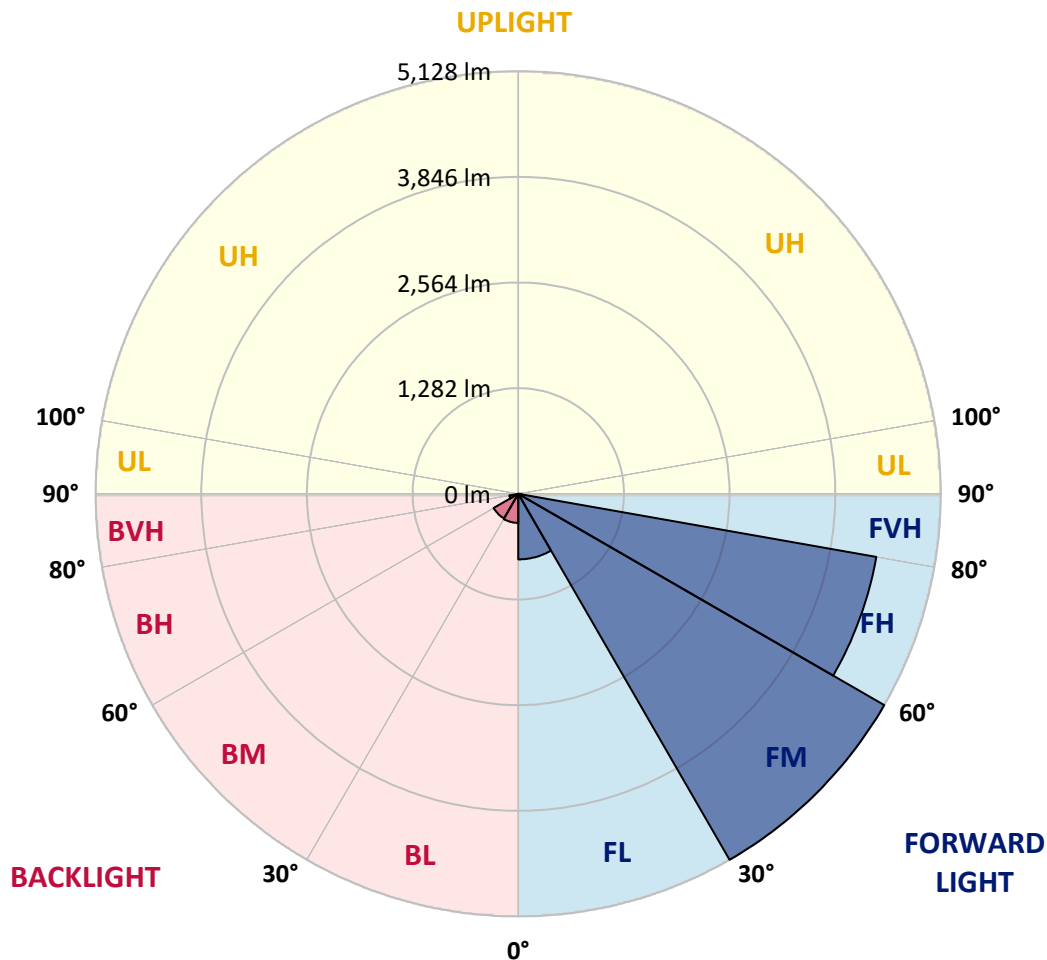
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.6	7.1			
FM (30°-60°)	5128.3	45.9			
FH (60°-80°)	4411.9	39.4			G2/5000
FVH (80°-90°)	40.9	0.4			G1/100
BL (0°-30°)	352.9	3.2	B1/500		
BM (30°-60°)	344.7	3.1	B1/1000		
BH (60°-80°)	109.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	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°	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0
2.5°	1955.2	1956.0	1960.7	1972.6	1990.7	2005.7	2018.3	2038.9	2053.1	2054.6	2059.4
5°	1820.2	1810.7	1820.2	1851.0	1878.6	1920.4	1971.8	2023.1	2068.9	2072.1	2094.2
7.5°	1668.5	1676.4	1691.4	1723.0	1775.2	1839.1	1913.4	2004.9	2091.8	2099.7	2143.1
10°	1514.6	1532.0	1556.4	1604.5	1677.2	1760.1	1861.2	1992.3	2128.2	2139.2	2214.2
12.5°	1372.4	1380.3	1410.4	1475.1	1565.1	1682.0	1821.8	1985.2	2168.4	2181.8	2290.0
15°	1263.4	1273.7	1299.8	1358.2	1458.5	1608.5	1789.4	1982.8	2207.9	2226.8	2365.8
17.5°	1242.9	1249.2	1260.3	1299.8	1387.4	1550.1	1760.1	1982.1	2245.8	2268.7	2436.1
20°	1327.4	1321.9	1310.9	1306.9	1355.0	1505.1	1738.9	1988.4	2282.1	2308.1	2510.3
22.5°	1539.0	1546.2	1481.4	1404.8	1389.0	1498.0	1735.7	2018.3	2339.7	2370.5	2593.2
25°	1988.4	1933.9	1832.8	1649.6	1511.4	1541.4	1771.2	2089.5	2406.9	2440.8	2668.2
27.5°	2485.1	2468.4	2311.3	2009.7	1752.2	1633.0	1834.4	2143.9	2429.0	2463.7	2710.9
30°	2973.0	2992.8	2812.7	2479.5	2102.1	1802.8	1893.6	2164.5	2448.7	2485.1	2765.4
32.5°	3425.6	3449.2	3291.3	2961.2	2514.3	2096.5	1995.4	2244.2	2531.7	2568.8	2856.2
35°	3781.6	3784.8	3665.6	3402.6	2964.4	2453.4	2215.8	2384.0	2643.8	2687.2	2952.5
37.5°	4108.5	4103.8	3964.1	3737.4	3339.4	2808.0	2493.0	2545.0	2771.7	2816.7	3091.5
40°	4351.0	4354.2	4309.1	4095.9	3689.3	3135.8	2712.5	2695.9	2986.5	3056.8	3293.6
42.5°	4512.9	4542.1	4564.2	4456.0	4129.1	3539.3	3049.6	3018.9	3359.2	3417.7	3579.5
45°	4643.9	4696.1	4806.7	4801.1	4551.6	4034.4	3512.4	3449.2	3887.4	3949.8	3943.5
47.5°	4739.5	4792.4	4975.6	5086.2	4948.8	4514.5	4094.3	4039.9	4518.4	4586.3	4345.4
50°	4788.5	4851.6	5085.4	5299.4	5259.1	4977.2	4757.7	4760.8	5280.4	5346.0	4811.4
52.5°	4673.9	4756.1	5143.8	5529.2	5607.4	5420.2	5379.1	5483.3	5958.7	6014.8	5232.3
55°	4308.4	4411.8	5064.1	5725.0	6010.9	5942.9	6085.1	6243.8	6700.2	6736.6	5664.2
57.5°	4077.0	4186.8	4828.8	5891.6	6495.7	6599.9	6825.0	6941.0	7465.4	7557.8	6160.1
60°	3882.0	3968.0	4635.3	5927.1	6988.5	7403.8	7622.6	7742.6	8409.8	8469.8	6705.7
62.5°	3557.4	3656.1	4308.4	5679.2	7236.4	8047.4	8500.7	8446.9	9140.2	9182.1	7040.6
65°	3035.4	3044.1	3645.1	5056.2	6980.6	8465.1	9117.4	8892.3	9489.3	9517.7	7014.5
67.5°	2265.5	2349.2	2804.1	3974.3	5896.3	8108.2	9317.1	8904.2	9269.0	9190.0	6457.8
70°	1459.3	1523.2	1900.7	2755.9	4251.5	6766.5	8654.6	8293.8	8135.0	7959.7	5285.9
72.5°	673.6	755.7	1129.2	1574.6	2521.4	4820.0	7025.5	6738.1	5855.3	5422.5	3360.0
75°	293.8	314.3	557.5	830.7	1182.1	2549.0	4632.1	4182.8	2644.5	2415.5	1344.8
77.5°	179.2	192.7	292.2	445.4	464.3	971.3	2495.3	1824.9	817.3	721.0	364.8
80°	121.6	136.6	212.4	233.0	158.7	270.9	936.5	487.2	165.0	157.9	78.2
82.5°	59.2	75.0	157.2	130.3	68.7	86.9	272.4	104.2	48.2	45.0	27.7
85°	8.7	15.0	88.5	85.3	30.8	20.5	48.2	26.1	16.6	15.8	12.6
87.5°	0.0	0.0	30.0	13.5	3.2	3.2	5.6	5.6	6.3	5.6	6.3
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°	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0
2.5°	2061.8	2065.7	2050.7	2029.4	2006.5	1983.6	1951.2	1922.0	1904.6	1914.9	1889.6
5°	2098.9	2095.8	2056.2	1991.5	1905.5	1802.0	1699.3	1611.7	1583.3	1540.6	1535.9
7.5°	2150.3	2141.5	2057.8	1909.4	1715.1	1520.9	1331.4	1205.8	1133.9	1073.1	1074.7
10°	2222.1	2196.9	2039.7	1764.8	1445.1	1152.1	910.5	744.6	672.8	649.9	631.8
12.5°	2296.4	2247.3	1989.1	1569.8	1125.3	787.3	553.5	452.5	408.2	394.0	392.5
15°	2362.6	2285.2	1900.7	1335.3	818.0	503.0	377.4	344.3	338.8	339.5	338.8
17.5°	2428.2	2315.3	1778.3	1086.6	555.9	360.9	324.5	316.6	319.0	322.2	321.4
20°	2482.6	2321.6	1622.0	829.1	393.3	316.6	304.8	303.3	305.6	308.0	308.0
22.5°	2541.9	2326.3	1436.3	574.1	321.4	294.5	288.2	288.2	291.4	294.5	295.4
25°	2586.2	2300.3	1214.5	412.2	283.5	273.2	270.0	270.9	274.0	275.6	274.8
27.5°	2593.2	2226.8	979.2	315.9	257.4	247.2	244.0	247.2	243.2	245.6	244.0
30°	2599.5	2133.6	740.7	266.1	233.7	217.9	213.2	208.5	205.3	201.3	200.6
32.5°	2619.3	2023.9	540.9	239.3	211.6	194.3	183.2	169.8	159.5	156.3	155.6
35°	2628.0	1892.0	397.2	217.9	191.9	172.9	153.2	134.2	119.3	113.7	117.7
37.5°	2661.2	1764.1	308.0	202.2	174.5	150.8	125.6	101.8	87.6	84.5	86.0
40°	2729.0	1625.1	258.2	188.7	159.5	130.3	99.5	76.6	67.1	64.0	63.2
42.5°	2838.0	1486.9	229.8	176.1	144.5	109.8	78.2	60.0	52.1	49.8	49.8
45°	2970.7	1354.3	210.1	162.6	128.7	88.5	61.6	48.2	43.4	41.9	41.9
47.5°	3145.2	1238.2	193.4	149.3	111.3	70.3	49.8	41.9	38.7	39.4	40.3
50°	3322.0	1152.1	175.3	134.2	91.6	57.6	42.6	37.1	36.3	37.1	37.1
52.5°	3455.5	1101.5	150.8	113.7	71.8	48.2	37.9	34.7	34.0	32.4	32.4
55°	3635.6	1090.5	120.0	92.4	56.9	40.3	34.0	31.6	29.2	27.7	26.8
57.5°	3866.9	1103.1	92.4	71.8	44.2	33.1	30.0	26.1	22.9	19.8	19.8
60°	4010.6	1074.7	71.8	55.3	32.4	26.8	22.9	18.9	15.0	12.6	11.9
62.5°	3964.9	954.7	56.9	41.0	22.9	19.8	15.0	12.6	8.7	6.3	5.6
65°	3728.7	770.7	45.8	28.4	16.6	11.9	7.9	7.9	4.0	0.8	0.0
67.5°	3263.7	571.0	36.3	18.9	9.5	5.6	4.0	2.4	0.0	0.0	0.0
70°	2656.4	412.2	28.4	11.9	5.6	4.0	1.6	0.8	0.0	0.0	0.0
72.5°	1686.7	236.1	22.1	7.1	4.0	1.6	0.0	0.0	0.0	0.0	0.0
75°	652.3	92.4	15.0	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	184.8	43.4	8.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.2	18.9	4.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.5	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	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)