

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: P651168

Luminaire Tested: **GALN-SA1D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5940 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

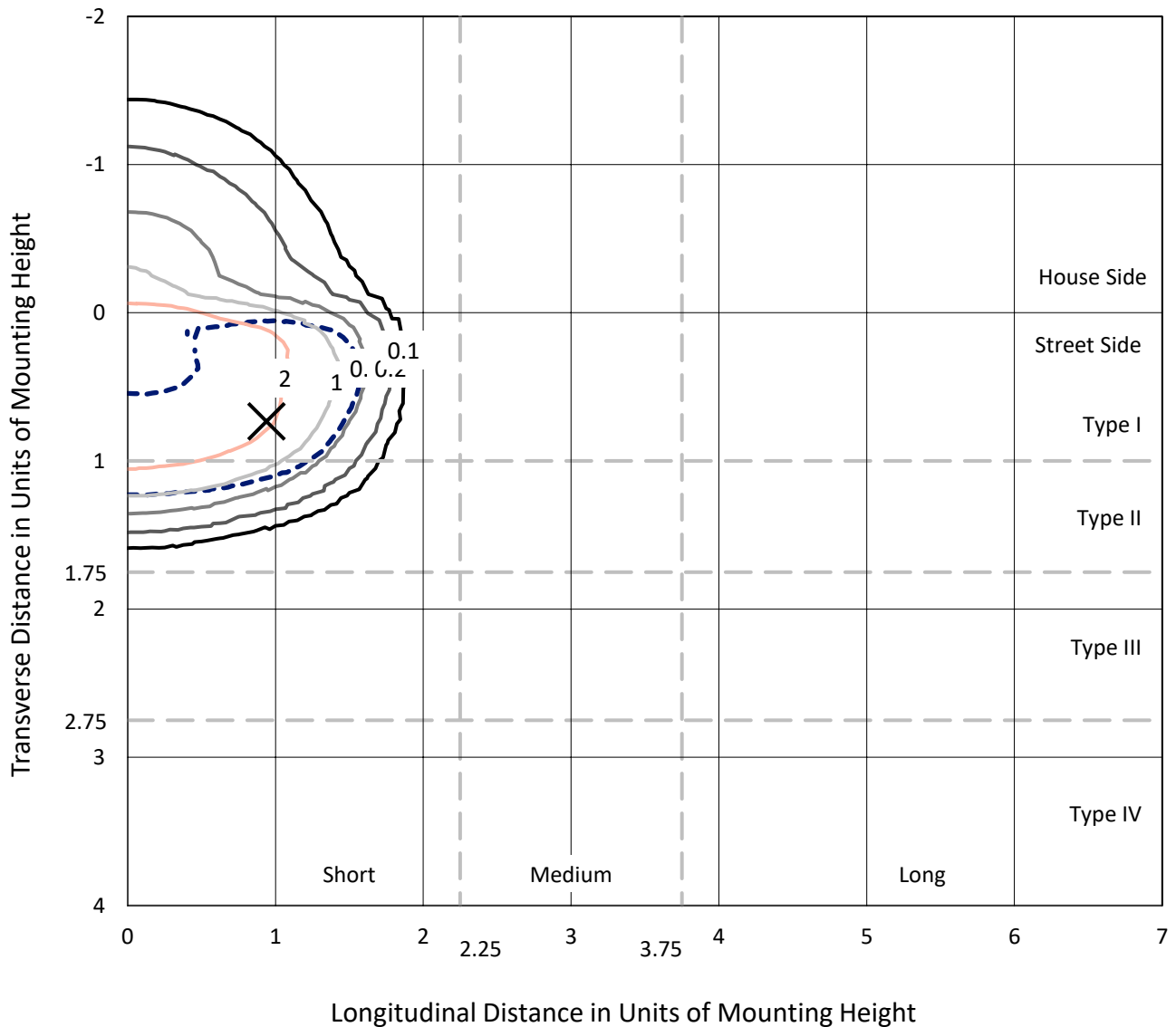
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

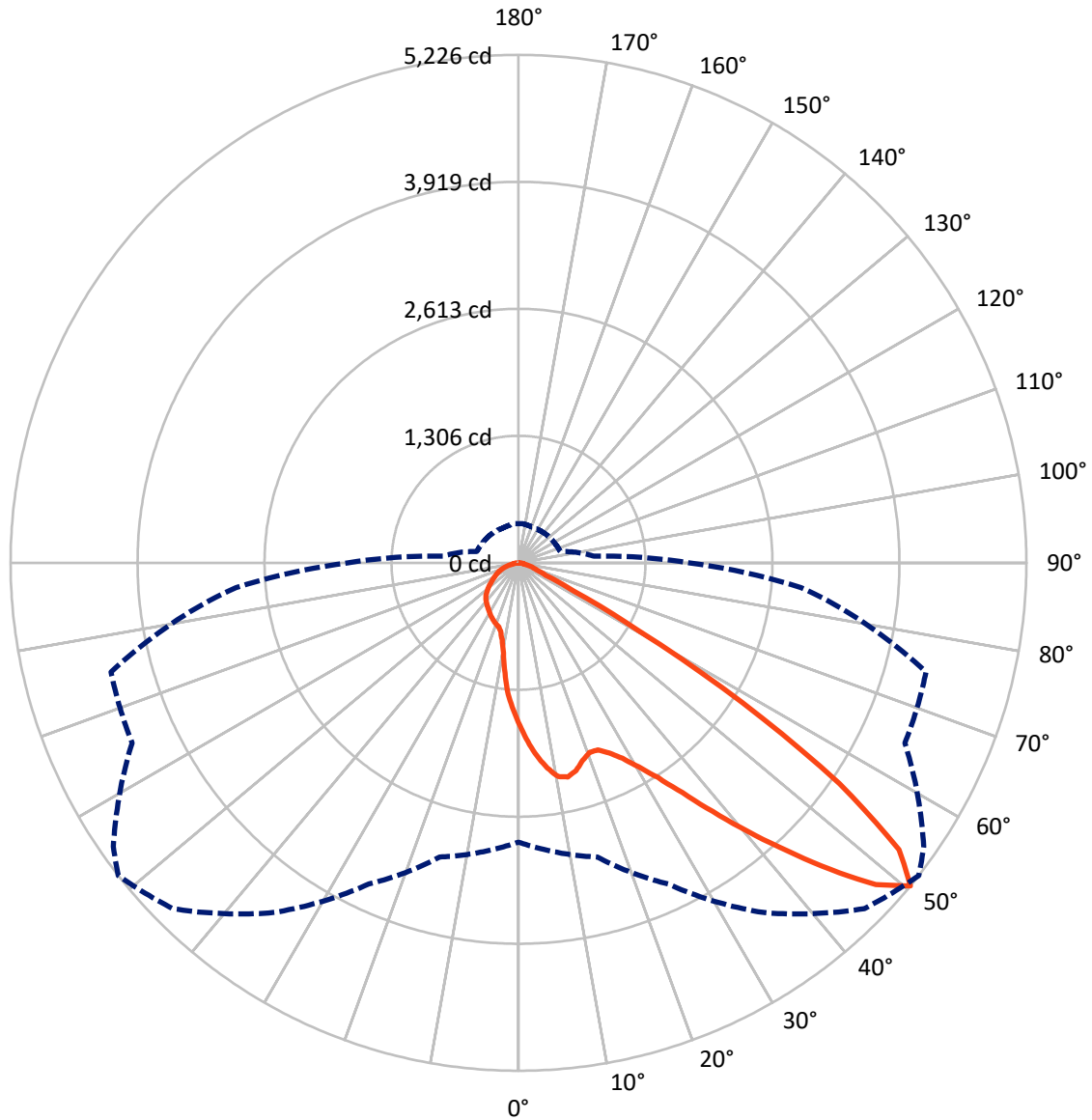
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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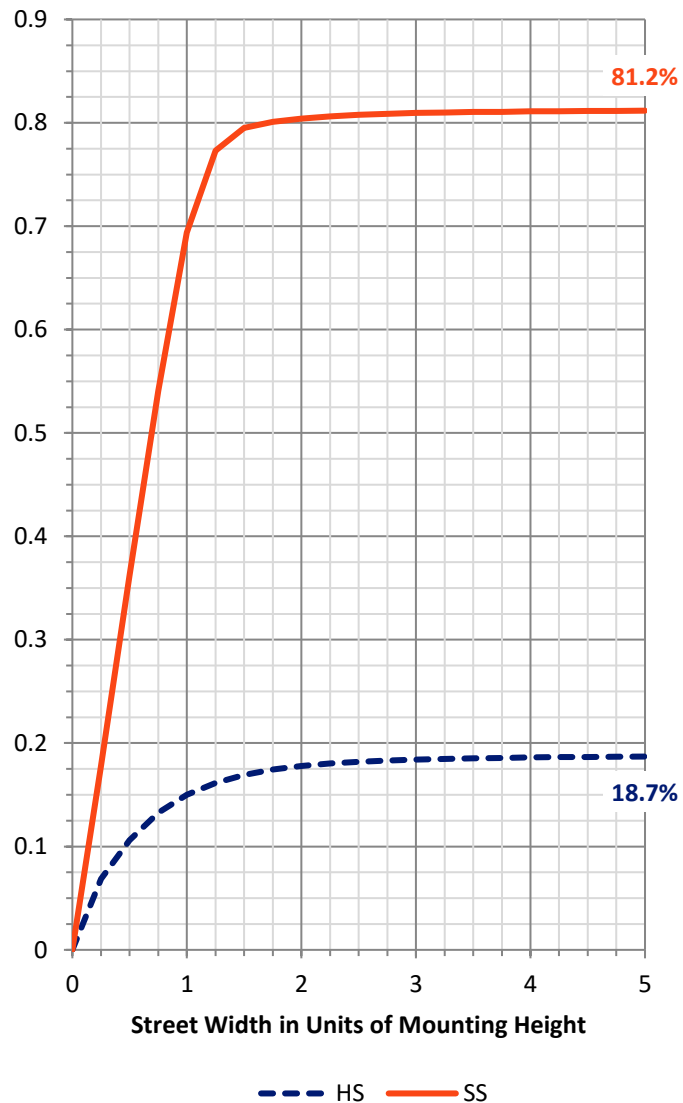
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1116.6	0.0	1116.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4823.4	0.0	4823.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	5940.0	0.0	5940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	2.6
10°-20°	413.6	7.0
20°-30°	696.8	11.7
30°-40°	1169.2	19.7
40°-50°	1788.6	30.1
50°-60°	1304.0	22.0
60°-70°	290.2	4.9
70°-80°	104.7	1.8
80°-90°	18.5	0.3
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°	5940.0	100.0
0°-180°	5940.0	100.0

Coefficient of Utilization

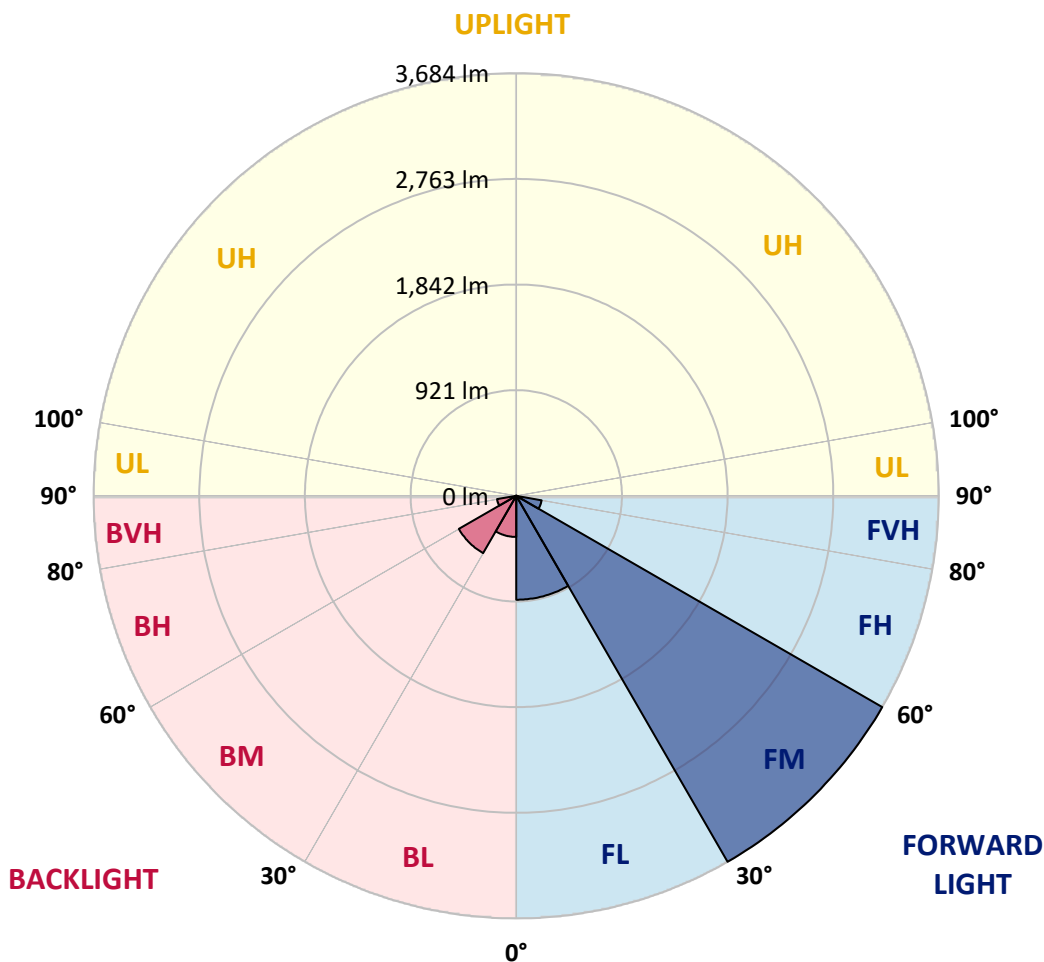


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.1	15.3			
FM (30°-60°)	3684.3	62.0			
FH (60°-80°)	224.8	3.8			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	358.7	6.0	B1/500		
BM (30°-60°)	577.6	9.7	B1/1000		
BH (60°-80°)	170.1	2.9	B1/500		G1/500
BVH (80°-90°)	10.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1971.5	1933.5	1937.8	1910.6	1881.2	1872.7	1842.6	1814.0	1792.5	1746.7	1704.5
5°	2154.7	2143.3	2126.0	2104.6	2082.4	2028.0	1997.2	1961.5	1882.7	1811.9	1741.7
7.5°	2181.2	2179.0	2188.4	2188.4	2196.3	2175.5	2131.9	2106.8	2023.0	1907.7	1777.5
10°	1995.1	2001.5	2046.7	2105.4	2186.9	2243.5	2236.3	2229.9	2138.2	1980.8	1819.7
12.5°	1846.9	1832.6	1859.1	1909.2	2031.6	2168.4	2260.7	2261.4	2237.7	2097.5	1850.5
15°	1763.2	1773.2	1780.3	1803.9	1896.3	2054.5	2217.0	2265.0	2368.8	2179.8	1899.1
17.5°	1816.8	1783.2	1781.7	1787.5	1834.7	1953.6	2136.1	2218.4	2440.3	2285.8	1959.3
20°	1887.0	1886.3	1866.3	1859.1	1858.4	1964.3	2083.2	2194.8	2478.3	2423.2	2020.2
22.5°	2010.2	2010.2	1977.2	1961.5	1927.8	2014.4	2090.3	2166.2	2541.2	2517.6	2049.5
25°	2216.3	2182.6	2126.0	2087.4	2068.1	2098.9	2166.2	2234.2	2596.4	2617.9	2110.3
27.5°	2406.7	2353.7	2325.8	2259.3	2233.4	2215.5	2277.1	2345.9	2660.8	2774.0	2143.3
30°	2622.9	2613.6	2563.5	2477.6	2413.8	2381.0	2437.5	2505.5	2778.9	2933.6	2219.1
32.5°	3009.4	2925.0	2857.0	2751.8	2648.0	2577.7	2633.6	2678.8	2975.1	3100.3	2302.2
35°	3426.8	3399.6	3282.2	3092.5	2933.6	2870.6	2903.5	2937.1	3203.5	3355.2	2441.8
37.5°	3837.0	3799.7	3703.1	3543.5	3350.2	3222.0	3245.7	3285.0	3459.7	3698.8	2612.1
40°	4131.9	4086.1	4037.4	4013.8	3821.9	3646.6	3633.0	3643.0	3806.2	4021.0	2801.1
42.5°	4153.4	4210.0	4224.9	4320.2	4275.1	4131.2	4047.5	4049.6	4136.9	4339.5	2992.3
45°	4108.3	4056.1	4167.0	4426.9	4575.7	4643.0	4502.0	4484.1	4341.7	4524.2	3087.5
47.5°	3635.1	3649.4	3837.0	4247.9	4678.1	4978.8	4945.8	4886.4	4451.2	4517.8	3072.4
50°	2873.4	2960.1	3134.0	3645.8	4391.8	5031.7	5225.7	5088.3	4386.1	4340.2	2919.3
52.5°	1913.4	1949.3	2063.8	2724.5	3531.3	4497.8	4903.6	4935.1	4325.9	4107.6	2725.3
55°	851.8	849.0	1010.0	1423.1	2215.5	3422.5	4006.6	4198.5	4094.7	3870.6	2536.3
57.5°	360.8	373.0	438.8	614.9	1089.5	2065.2	2714.5	2882.8	3149.0	3178.4	1945.7
60°	244.1	245.6	263.4	307.8	456.0	970.0	1423.8	1625.7	1816.1	1803.3	1032.2
62.5°	191.8	196.9	210.5	228.3	270.6	440.3	637.1	749.5	761.7	640.7	391.6
65°	163.9	164.7	178.2	193.3	211.9	256.3	307.1	312.9	316.4	304.9	287.8
67.5°	135.3	136.7	147.4	164.7	181.8	196.1	210.5	217.7	234.1	266.3	262.0
70°	107.4	109.5	118.8	133.1	148.9	157.5	175.3	181.8	196.9	221.9	231.9
72.5°	81.6	82.3	90.2	100.2	114.5	123.1	138.2	145.3	155.3	176.8	186.1
75°	58.7	60.9	66.6	71.6	73.8	79.5	93.8	101.7	116.0	125.3	126.0
77.5°	30.8	32.2	33.6	33.6	40.8	51.6	60.9	65.2	75.2	82.3	78.7
80°	12.2	12.9	16.5	22.2	28.6	37.3	43.6	45.8	54.4	58.7	60.9
82.5°	7.1	7.9	10.8	15.7	20.8	26.5	31.5	33.6	39.4	44.4	45.8
85°	3.6	4.3	6.5	10.0	13.6	16.5	15.7	15.1	15.1	14.3	15.1
87.5°	1.4	1.4	2.2	2.2	2.2	2.9	3.6	3.6	3.6	4.3	4.3
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°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1676.5	1647.9	1621.4	1572.8	1519.8	1504.7	1443.2	1421.0	1405.2	1386.6	1380.9
5°	1685.1	1647.2	1562.0	1463.9	1385.9	1285.6	1219.8	1149.0	1097.4	1084.6	1080.9
7.5°	1703.0	1637.8	1491.1	1342.9	1183.3	1047.3	943.5	887.7	838.2	835.4	830.4
10°	1723.0	1609.9	1413.8	1181.2	977.2	851.2	788.9	764.6	752.4	749.5	748.1
12.5°	1739.5	1604.2	1327.2	1023.7	831.1	755.2	736.6	734.4	739.5	740.9	743.8
15°	1746.7	1581.3	1222.6	882.6	740.2	712.2	720.1	728.7	732.3	741.6	734.4
17.5°	1760.3	1552.0	1093.8	770.9	689.4	694.4	708.0	718.0	723.8	730.2	720.9
20°	1767.4	1525.5	972.9	704.4	671.5	680.8	699.4	707.3	714.4	717.3	706.5
22.5°	1761.0	1471.1	866.1	650.7	654.3	666.5	682.9	691.6	687.2	675.7	669.4
25°	1743.8	1394.5	755.2	616.4	630.0	651.4	664.3	657.8	650.0	643.5	641.4
27.5°	1743.1	1300.7	675.1	584.8	609.2	638.6	634.3	628.5	632.1	627.0	621.3
30°	1746.7	1209.8	609.2	566.9	594.2	608.5	613.5	607.8	612.1	602.7	605.6
32.5°	1728.1	1121.1	566.2	546.2	576.3	575.6	592.0	596.3	586.3	566.9	569.9
35°	1735.9	1049.5	529.7	536.9	556.2	556.2	569.1	564.1	537.6	526.1	529.0
37.5°	1790.3	979.3	511.8	524.0	536.9	542.6	538.3	516.9	510.4	510.4	511.8
40°	1841.9	919.1	501.1	521.2	519.0	522.6	491.1	493.2	493.2	493.9	490.4
42.5°	1887.7	878.3	492.5	503.9	507.5	489.0	469.6	467.4	472.5	471.7	468.9
45°	1904.2	844.7	480.4	484.7	487.5	456.7	447.4	443.1	448.8	451.0	453.9
47.5°	1841.2	816.8	466.8	458.2	452.5	432.4	420.2	412.3	419.5	431.7	434.5
50°	1760.3	780.3	445.2	428.8	416.6	408.1	399.5	391.6	396.6	405.2	403.0
52.5°	1640.7	723.0	418.1	400.9	380.1	382.2	374.4	370.1	373.0	373.0	370.8
55°	1470.4	594.2	372.2	360.1	342.9	348.6	350.0	344.3	338.6	343.6	339.3
57.5°	1003.6	419.5	332.2	332.2	315.0	322.9	322.1	308.6	294.9	296.4	293.5
60°	580.5	334.3	306.4	303.5	285.6	292.1	293.5	284.2	263.4	264.8	262.0
62.5°	330.0	285.6	267.7	263.4	259.9	265.6	265.6	253.4	235.5	236.9	234.1
65°	280.6	264.8	239.1	238.3	236.9	238.3	232.6	219.8	204.0	197.6	198.3
67.5°	254.8	244.8	219.8	213.4	209.0	208.3	197.6	185.4	178.2	172.5	171.8
70°	223.4	215.5	196.9	188.3	184.0	173.9	163.2	155.3	145.3	142.5	145.3
72.5°	176.8	176.1	169.0	159.6	150.4	142.5	133.1	122.4	113.1	110.9	106.0
75°	122.4	123.9	125.3	123.9	116.0	106.0	95.2	86.6	75.2	68.7	67.3
77.5°	80.1	82.3	84.4	81.6	76.6	67.3	60.1	49.4	40.8	35.8	35.1
80°	58.7	61.6	63.0	60.9	55.1	47.9	40.1	31.5	25.1	20.8	20.8
82.5°	45.1	47.9	49.4	45.8	40.1	34.4	28.6	22.2	17.2	13.6	12.9
85°	15.7	15.1	17.9	18.6	22.2	20.8	17.2	12.9	10.0	7.1	6.5
87.5°	4.3	4.3	5.0	5.0	4.3	3.6	3.6	3.6	2.9	2.2	2.2
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)