

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: P526942

Luminaire Tested: **GALN-SA1D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5466 lumens
Efficiency: N/A
Efficacy: 84.1 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

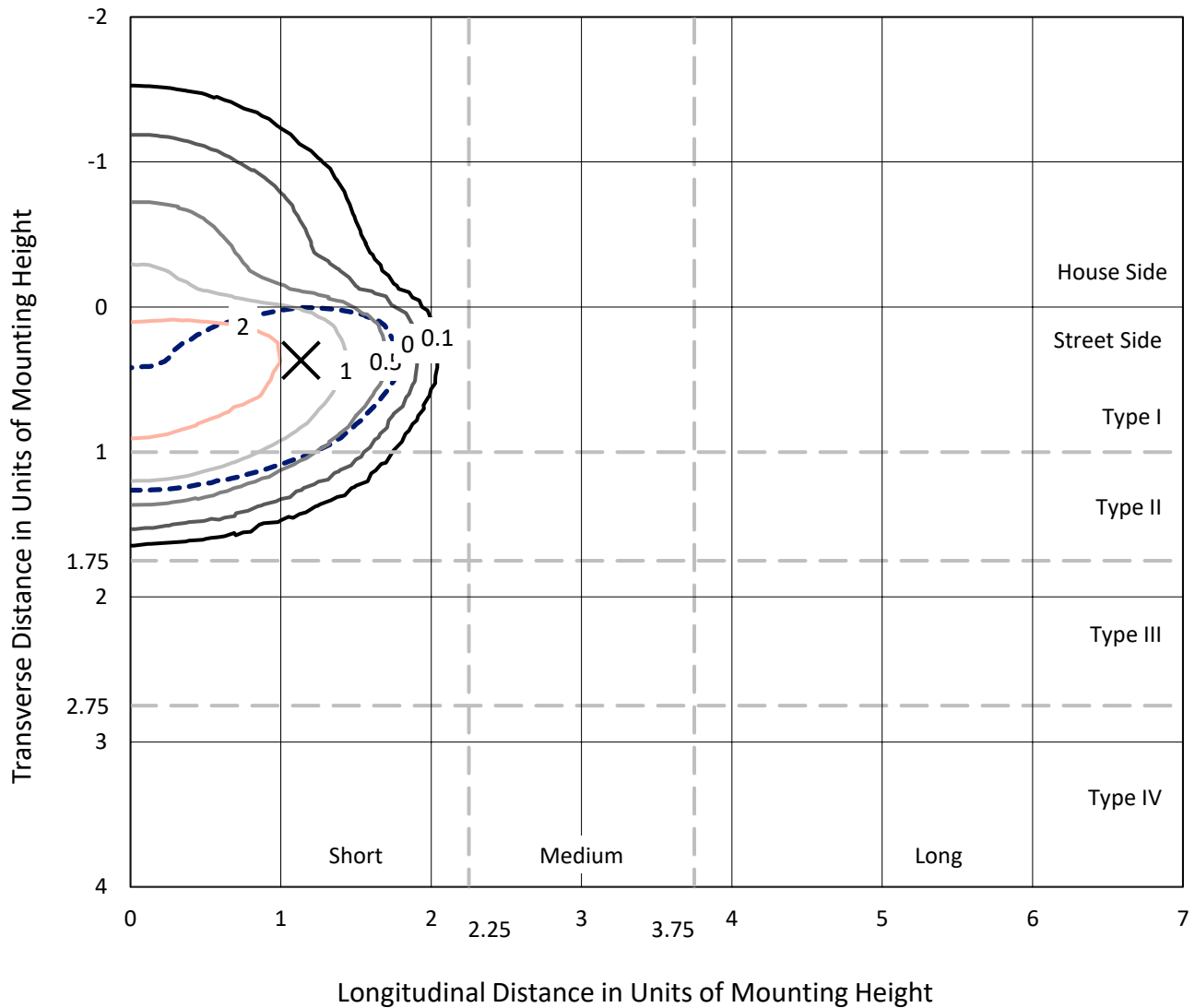
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

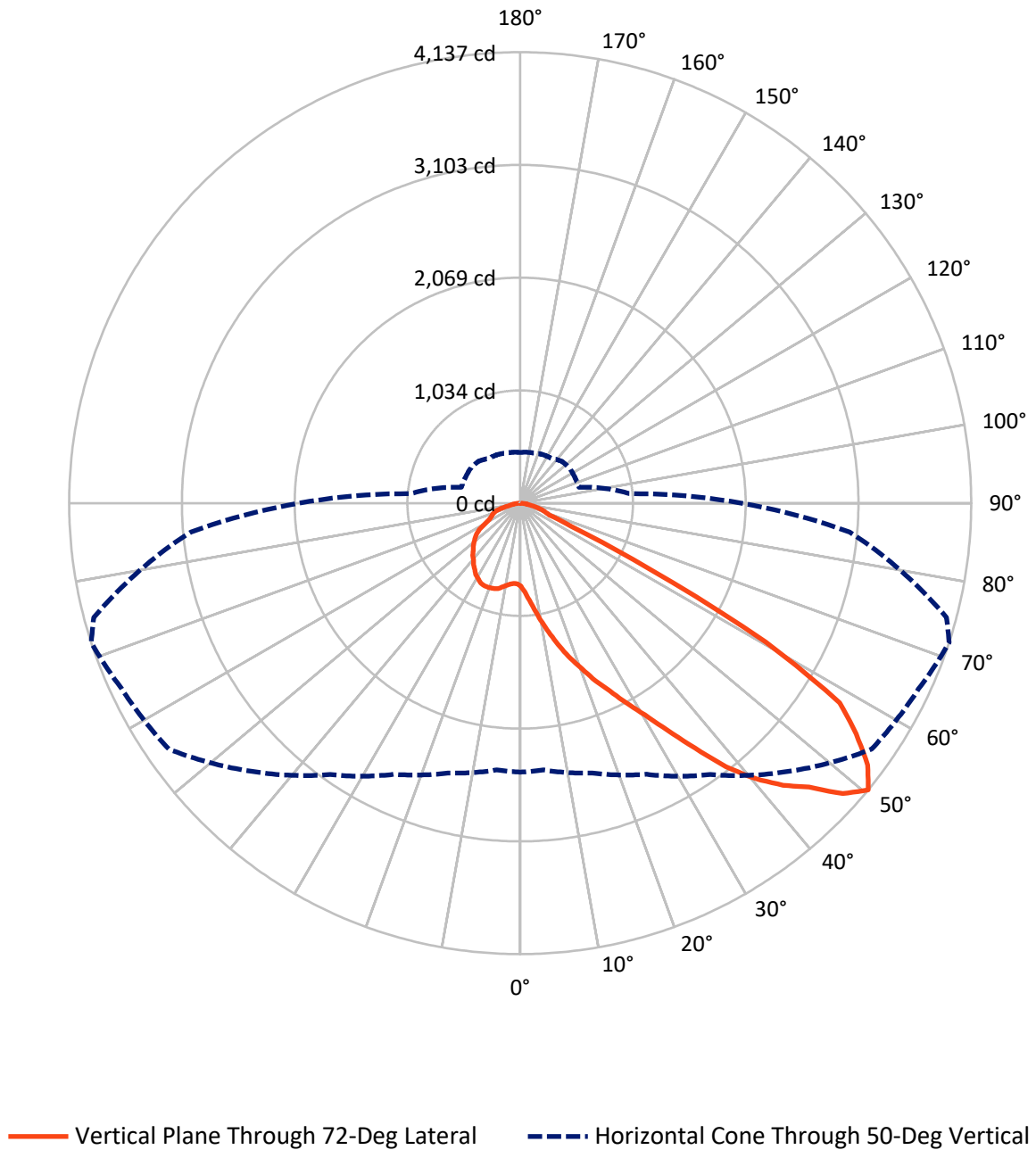
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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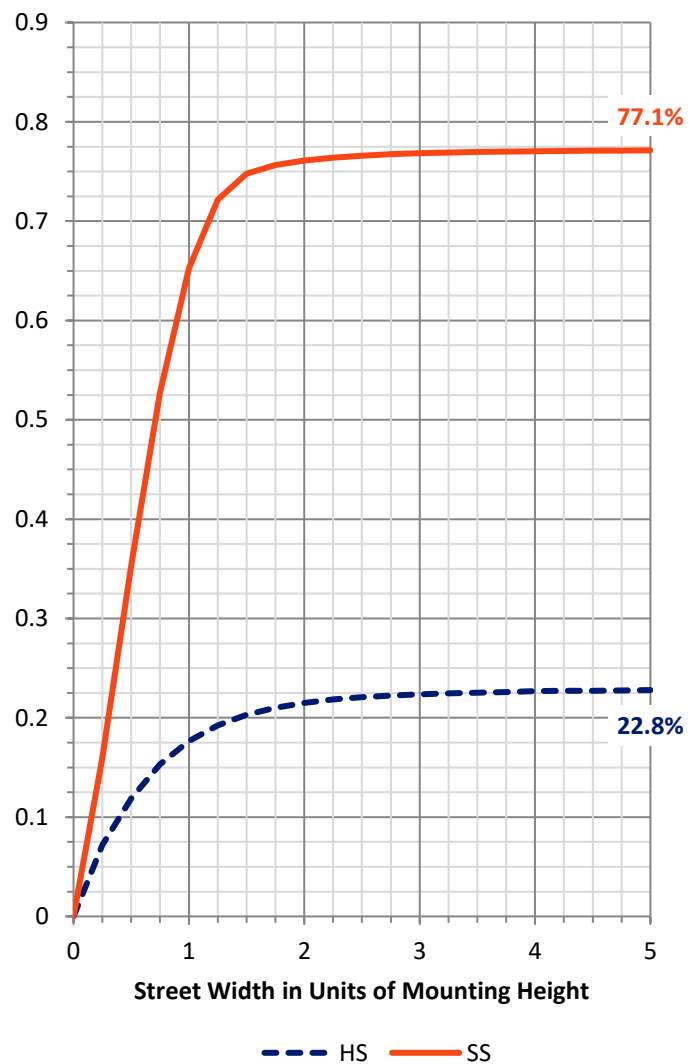
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.3	0.0	1252.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4213.7	0.0	4213.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	5466.0	0.0	5466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.6
10°-20°	334.6	6.1
20°-30°	648.7	11.9
30°-40°	1074.8	19.7
40°-50°	1503.8	27.5
50°-60°	1268.7	23.2
60°-70°	386.7	7.1
70°-80°	135.7	2.5
80°-90°	23.6	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°	5466.0	100.0
0°-180°	5466.0	100.0

Coefficient of Utilization



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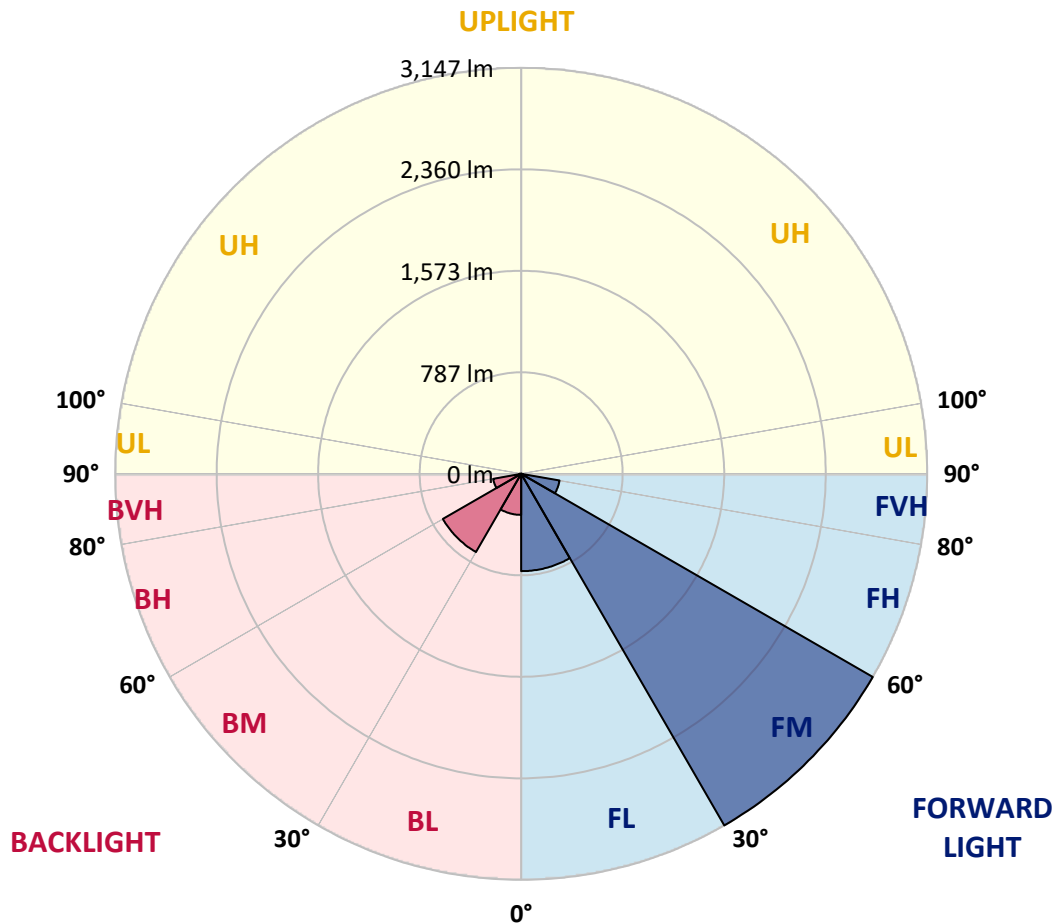
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.5	13.8			
FM	(30°-60°)	3146.9	57.6			
FH	(60°-80°)	301.7	5.5			G0/660
FVH	(80°-90°)	10.6	0.2			G1/100
BL	(0°-30°)	318.3	5.8	B1/500		
BM	(30°-60°)	700.3	12.8	B1/1000		
BH	(60°-80°)	220.6	4.0	B1/500		G1/500
BVH	(80°-90°)	13.0	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°	55°	65°	72°	75°	85°
0°	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9
2.5°	978.7	972.6	954.4	948.3	926.6	887.4	873.9	834.0	817.1	801.5	783.2
5°	1237.8	1209.3	1207.3	1172.8	1122.8	1093.7	1007.1	948.9	895.5	868.5	818.4
7.5°	1402.8	1403.5	1403.5	1375.1	1335.2	1261.4	1183.6	1078.8	998.3	958.4	873.2
10°	1559.7	1546.2	1538.7	1536.0	1509.0	1437.3	1354.1	1224.2	1114.0	1067.3	914.4
12.5°	1670.6	1659.1	1676.0	1667.2	1647.6	1601.0	1522.5	1374.4	1236.4	1173.5	980.7
15°	1723.4	1731.5	1745.0	1769.4	1760.6	1743.0	1656.4	1528.6	1368.3	1297.3	1039.6
17.5°	1804.5	1782.2	1798.5	1828.9	1853.2	1845.1	1795.8	1640.2	1498.8	1411.6	1118.7
20°	1861.4	1848.5	1856.6	1891.8	1910.1	1956.1	1930.4	1786.3	1624.0	1532.0	1212.1
22.5°	2023.7	2004.8	1978.4	1983.8	1990.6	2023.0	2029.1	1946.6	1769.4	1672.0	1300.7
25°	2223.9	2206.3	2175.2	2143.4	2123.8	2117.7	2138.7	2072.4	1908.7	1807.9	1396.0
27.5°	2444.4	2414.6	2395.0	2329.4	2276.7	2268.5	2258.4	2222.5	2073.7	1964.8	1503.6
30°	2658.8	2635.1	2608.8	2503.9	2449.1	2440.3	2390.3	2400.4	2253.0	2131.9	1625.3
32.5°	2821.1	2823.2	2763.0	2683.8	2632.4	2585.8	2567.5	2596.6	2482.9	2385.5	1761.3
35°	2952.3	2958.4	2900.9	2829.2	2773.8	2806.3	2798.1	2811.7	2757.6	2638.5	1919.5
37.5°	3080.2	3049.7	2988.2	2953.7	2924.6	2978.0	3047.0	3058.5	3068.7	2928.7	2103.5
40°	3101.1	3103.9	3068.0	3092.4	3055.8	3136.3	3296.6	3281.7	3323.0	3200.6	2303.0
42.5°	3071.4	3077.5	3091.7	3126.2	3214.1	3310.8	3548.9	3488.0	3538.1	3429.2	2497.2
45°	3022.7	2997.7	3015.2	3146.5	3298.6	3513.7	3779.5	3732.2	3716.0	3624.7	2728.5
47.5°	2790.0	2815.7	2870.5	3032.2	3260.8	3548.9	3943.2	3932.4	3981.1	3916.8	2938.8
50°	2467.4	2457.2	2562.8	2744.7	3039.6	3479.9	3934.4	4032.5	4137.3	4048.1	3032.8
52.5°	1847.8	1901.9	1992.6	2218.5	2639.2	3103.9	3742.3	3906.0	3991.2	3972.3	2957.1
55°	1168.1	1184.3	1239.1	1507.6	1886.4	2491.1	3208.0	3587.5	3739.6	3810.7	2887.4
57.5°	567.5	537.0	604.0	819.8	1089.6	1675.4	2474.2	3124.8	3455.6	3584.1	2735.9
60°	296.2	307.7	334.1	411.2	563.4	869.8	1542.1	2082.5	2587.8	2785.3	2073.7
62.5°	245.5	249.6	267.2	305.7	374.7	500.5	787.3	1015.2	1319.6	1497.5	1179.6
65°	208.3	210.4	229.3	255.0	299.0	352.4	405.1	424.1	513.4	526.9	419.3
67.5°	173.8	175.9	196.1	220.5	248.9	263.1	276.6	275.3	285.4	281.4	280.7
70°	133.9	135.9	156.9	182.6	196.8	188.7	230.6	240.1	244.2	247.6	253.0
72.5°	96.7	100.8	117.0	135.3	127.8	146.8	190.1	204.3	209.7	211.7	218.5
75°	70.3	71.7	75.8	70.3	81.2	102.1	133.9	151.5	158.3	160.3	170.4
77.5°	31.1	31.8	32.5	40.6	52.1	63.6	79.8	94.0	103.5	106.2	108.9
80°	16.2	16.9	21.0	27.7	37.2	46.7	58.2	66.3	72.4	73.0	75.8
82.5°	10.1	10.8	14.9	19.6	26.4	34.5	42.6	49.4	54.1	54.8	55.5
85°	4.7	6.1	8.8	12.2	17.6	22.3	23.0	19.6	21.0	21.6	20.3
87.5°	1.4	2.0	2.7	2.0	2.7	2.7	3.4	4.1	4.1	4.1	4.7
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°	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9	760.9
2.5°	773.1	767.0	743.3	734.5	711.5	715.6	703.4	702.7	700.0	699.4	698.7
5°	792.0	773.1	744.7	723.0	710.2	708.8	700.0	700.0	702.7	704.8	700.0
7.5°	823.1	801.5	753.5	733.2	721.7	719.7	713.6	708.8	714.9	712.9	707.5
10°	859.0	821.1	770.4	752.8	733.9	729.1	729.1	731.2	721.0	724.4	719.0
12.5°	898.9	848.2	792.0	771.7	749.4	746.7	745.4	730.5	735.9	733.2	719.7
15°	949.6	879.3	819.8	785.3	766.3	754.2	736.6	733.9	730.5	723.7	717.6
17.5°	1004.4	913.1	832.6	789.3	760.9	752.1	738.6	724.4	714.2	715.6	710.9
20°	1051.1	944.2	837.3	793.4	756.9	739.9	719.0	710.2	699.4	698.7	698.0
22.5°	1106.5	986.1	844.1	782.6	744.7	727.1	712.9	697.3	689.9	680.4	685.2
25°	1172.8	1002.4	845.5	776.5	735.9	704.8	697.3	680.4	677.7	664.2	666.9
27.5°	1220.8	1011.2	834.6	757.5	715.6	691.9	678.4	666.2	661.5	651.3	648.6
30°	1285.1	1024.7	811.6	733.9	695.3	668.9	660.8	658.1	644.6	633.8	632.4
32.5°	1358.1	1033.5	796.8	709.5	674.3	654.0	658.1	645.3	628.3	618.9	616.2
35°	1416.3	1036.9	759.6	681.8	660.1	647.3	642.5	639.8	615.5	606.7	599.9
37.5°	1504.9	1029.4	728.4	662.2	644.6	639.8	635.8	617.5	589.8	576.9	567.5
40°	1608.4	1027.4	688.5	634.4	629.7	635.1	622.9	594.5	556.0	541.8	535.0
42.5°	1707.8	1041.6	663.5	619.6	613.5	615.5	598.6	556.0	537.0	528.9	518.1
45°	1874.2	1071.4	622.3	596.6	593.9	592.5	572.2	527.6	516.7	506.6	504.6
47.5°	2024.4	1051.8	595.9	572.9	575.6	568.1	524.9	510.7	498.5	488.3	485.0
50°	2033.2	1005.1	558.7	554.6	555.3	542.4	501.2	491.7	476.2	469.4	464.7
52.5°	1987.2	928.7	524.2	525.5	527.6	506.6	472.1	465.3	452.5	443.0	440.3
55°	1858.0	809.6	490.4	495.8	501.2	461.3	450.5	433.6	423.4	409.9	410.6
57.5°	1636.8	652.0	443.0	451.8	463.3	419.3	411.2	390.3	375.4	364.6	363.2
60°	1097.1	464.0	372.0	375.4	401.1	383.5	382.8	361.9	341.6	332.1	326.7
62.5°	647.3	354.4	321.3	317.9	317.2	327.4	344.3	336.8	310.5	292.2	297.6
65°	338.9	306.4	299.0	287.5	280.7	278.0	290.8	294.2	276.6	257.0	255.7
67.5°	284.8	284.8	278.7	274.6	265.1	253.6	245.5	234.7	232.0	226.6	219.8
70°	259.0	265.8	263.8	254.3	246.2	233.3	212.4	194.8	177.9	171.8	175.9
72.5°	225.9	232.7	232.7	227.9	217.1	197.5	177.2	156.9	142.7	131.9	130.5
75°	173.8	177.2	185.3	179.9	165.7	153.5	132.6	111.6	98.1	87.9	85.9
77.5°	110.9	116.3	116.3	115.7	105.5	94.0	80.5	65.6	55.5	48.0	46.0
80°	73.7	77.1	79.8	77.1	70.3	61.5	51.4	41.3	33.8	27.7	26.4
82.5°	54.1	58.2	60.2	57.5	50.7	44.0	36.5	29.1	21.6	16.9	15.6
85°	21.0	21.6	24.3	29.1	28.4	27.7	22.3	16.2	12.2	8.8	8.1
87.5°	5.4	4.7	5.4	5.4	4.7	4.1	4.1	4.1	4.1	2.0	2.7
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)