

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: P451267

Luminaire Tested: **GALN-SA2A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6827 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

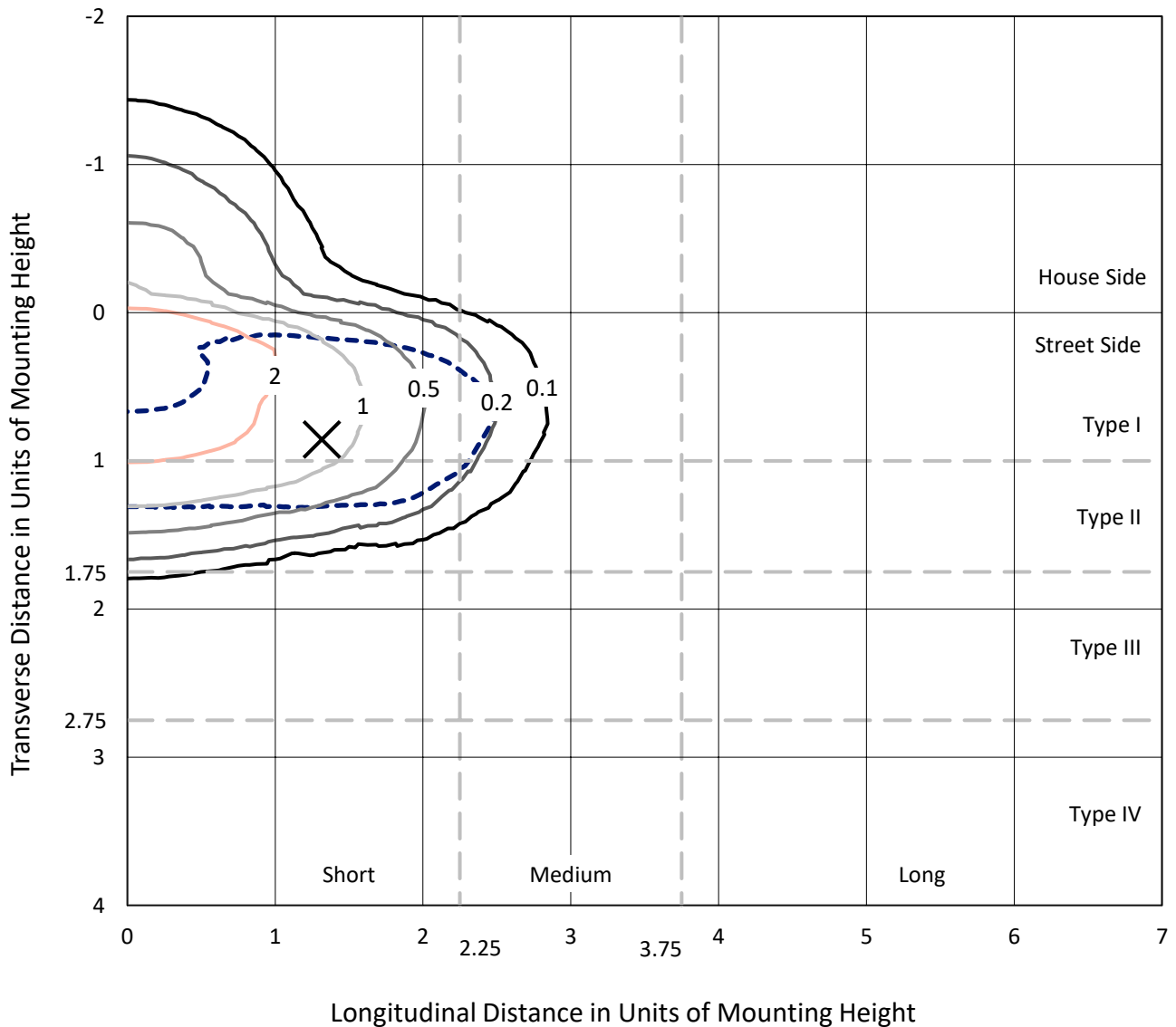
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

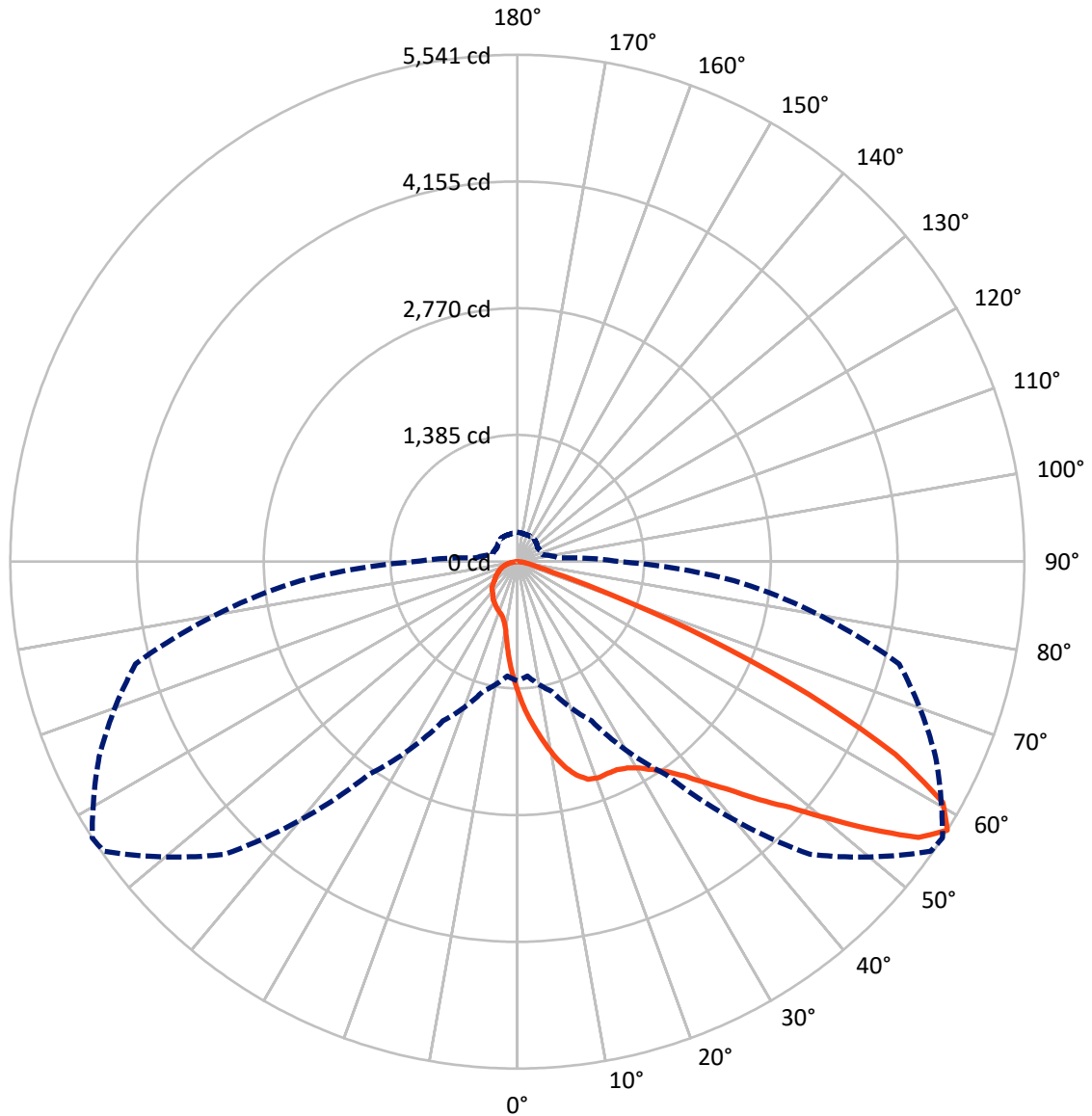
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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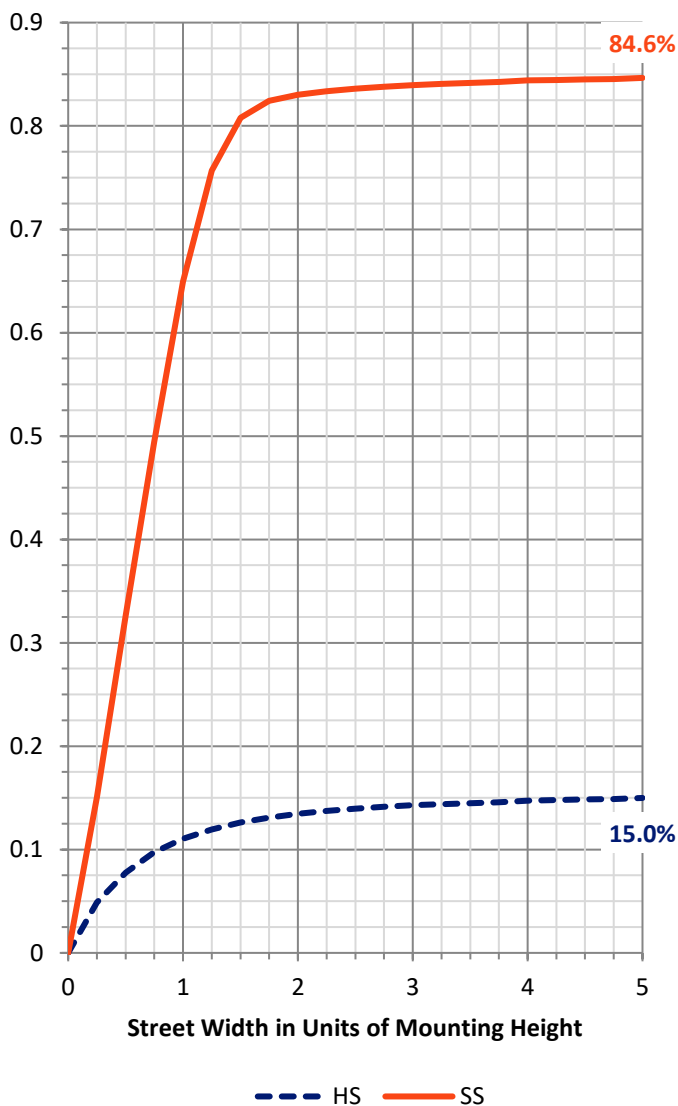
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.2	0.0	1038.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	5788.8	0.0	5788.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	6827.0	0.0	6827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	2.0
10°-20°	406.2	6.0
20°-30°	674.6	9.9
30°-40°	1016.1	14.9
40°-50°	1525.6	22.3
50°-60°	1710.0	25.0
60°-70°	1000.8	14.7
70°-80°	296.0	4.3
80°-90°	59.8	0.9
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°	6827.0	100.0
0°-180°	6827.0	100.0

Coefficient of Utilization



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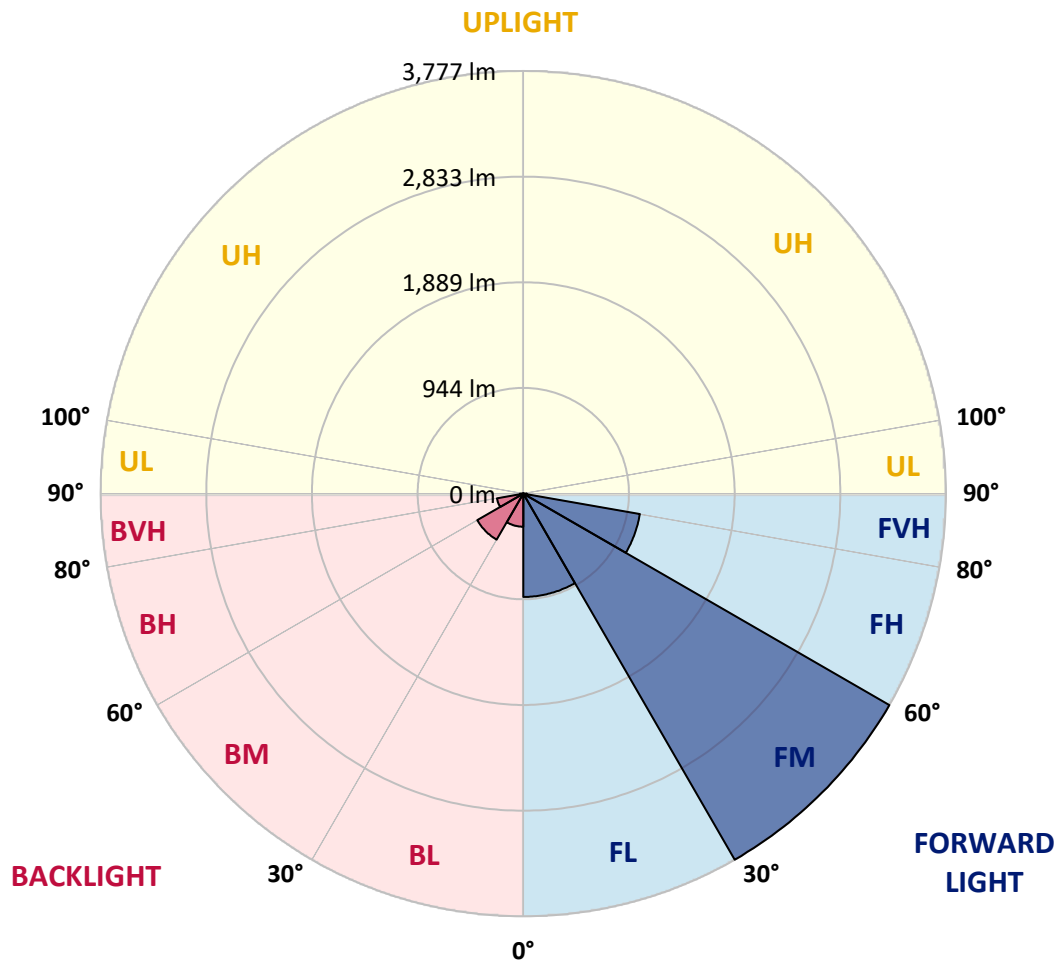
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.9	13.5			
FM	(30°-60°)	3777.0	55.3			
FH	(60°-80°)	1057.9	15.5			G1/1800
FVH	(80°-90°)	31.0	0.5			G1/100
BL	(0°-30°)	295.8	4.3	B1/500		
BM	(30°-60°)	474.7	7.0	B1/1000		
BH	(60°-80°)	238.9	3.5	B1/500		G1/500
BVH	(80°-90°)	28.8	0.4			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°	57°	65°	75°	85°
0°	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3
2.5°	1782.2	1762.8	1747.4	1734.0	1716.4	1669.0	1621.5	1620.8	1583.0	1524.7	1464.9
5°	2072.6	2046.4	2049.8	2007.9	1966.1	1897.3	1796.8	1791.5	1711.2	1602.1	1491.1
7.5°	2261.7	2262.0	2251.6	2227.6	2182.4	2104.3	1990.3	1964.6	1852.8	1687.3	1521.0
10°	2251.9	2262.0	2279.6	2300.1	2314.0	2275.5	2171.6	2140.2	1994.8	1790.4	1554.2
12.5°	2122.6	2138.3	2163.4	2214.9	2298.3	2361.8	2326.3	2300.9	2159.3	1893.2	1590.9
15°	2041.9	2051.3	2065.1	2099.8	2189.5	2341.6	2433.6	2420.1	2314.3	2009.4	1632.0
17.5°	2017.3	2026.6	2031.1	2052.4	2116.3	2272.1	2475.8	2499.7	2451.9	2116.3	1673.4
20°	2041.9	2046.4	2046.4	2059.1	2109.2	2231.4	2473.9	2522.1	2564.7	2244.5	1712.3
22.5°	2106.6	2108.4	2105.8	2110.3	2147.7	2242.6	2456.4	2516.1	2655.9	2353.2	1742.6
25°	2211.6	2214.6	2197.4	2186.9	2214.2	2291.9	2466.1	2521.0	2727.3	2457.1	1762.8
27.5°	2330.8	2334.5	2313.6	2289.3	2302.0	2352.8	2504.2	2553.5	2780.7	2559.5	1775.5
30°	2476.9	2478.4	2443.3	2414.1	2405.9	2443.6	2569.2	2615.2	2847.2	2680.2	1794.5
32.5°	2626.4	2637.6	2592.4	2551.3	2537.4	2549.0	2665.3	2709.7	2926.5	2809.9	1825.2
35°	2829.7	2831.6	2777.4	2727.3	2681.7	2696.6	2788.2	2820.3	3036.0	2959.7	1868.5
37.5°	3083.4	3100.6	3025.9	2932.5	2876.4	2854.7	2936.9	2972.1	3189.6	3143.6	1933.9
40°	3365.2	3371.6	3307.7	3249.4	3147.0	3084.2	3141.0	3179.1	3379.0	3363.0	2009.8
42.5°	3542.3	3556.2	3561.0	3555.0	3478.1	3372.7	3394.4	3412.3	3603.3	3568.9	2087.5
45°	3602.1	3622.7	3692.2	3839.4	3847.7	3743.8	3693.3	3710.5	3847.7	3776.6	2161.9
47.5°	3503.1	3538.2	3666.4	3968.4	4194.4	4202.3	4050.2	4012.5	4070.4	3948.9	2215.7
50°	3247.1	3254.6	3450.8	3888.0	4357.0	4640.7	4483.3	4413.1	4281.9	4076.4	2252.7
52.5°	2851.0	2859.6	3024.0	3514.7	4256.9	4947.1	4990.1	4864.5	4496.8	4175.4	2277.0
55°	2116.3	2166.0	2346.9	2821.1	3782.3	4918.3	5392.9	5321.5	4756.5	4253.9	2315.1
57.5°	1301.2	1255.6	1470.2	1919.3	2844.6	4522.9	5517.4	5540.5	5042.4	4319.6	2379.0
60°	598.7	607.6	696.2	989.9	1734.0	3538.2	5196.7	5343.2	5200.5	4317.4	2395.1
62.5°	412.6	404.3	381.9	434.6	790.8	2237.7	4389.5	4637.7	4883.6	4183.2	2331.2
65°	368.8	360.6	317.3	302.7	363.2	975.4	3191.1	3504.2	4111.9	3844.7	2172.0
67.5°	344.6	333.3	288.5	260.1	259.4	388.3	1881.6	2258.7	3049.8	3250.5	1882.0
70°	319.1	310.2	265.7	234.3	220.9	244.0	827.0	1082.6	1980.3	2342.4	1466.0
72.5°	293.7	283.3	243.3	209.6	192.1	182.7	316.9	412.2	1118.9	1404.4	898.8
75°	256.7	251.5	217.5	189.8	170.8	147.6	201.1	229.5	535.1	645.0	451.1
77.5°	224.6	219.0	193.2	165.9	152.1	120.0	142.8	155.8	225.7	261.6	203.7
80°	164.4	170.0	162.9	146.5	135.7	94.2	96.0	106.9	134.2	148.4	124.4
82.5°	104.3	114.7	125.6	112.9	102.8	74.4	66.5	70.6	91.6	97.2	55.3
85°	43.7	44.5	72.9	68.8	58.7	44.1	40.0	42.2	49.0	51.2	25.8
87.5°	16.8	16.4	25.8	23.9	18.3	12.7	12.7	14.2	19.4	17.9	8.2
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°	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3
2.5°	1439.1	1412.6	1359.9	1294.5	1246.7	1192.9	1145.4	1111.4	1098.7	1092.7	1081.5
5°	1438.0	1385.7	1276.6	1162.2	1070.3	976.1	896.5	844.9	840.5	806.1	802.7
7.5°	1438.4	1358.4	1184.6	1016.5	876.3	779.9	714.1	697.0	676.4	671.2	673.8
10°	1439.5	1323.7	1086.0	872.2	736.6	673.4	648.7	642.0	642.8	645.0	645.4
12.5°	1441.0	1290.0	983.6	762.7	658.1	631.9	629.3	635.3	641.6	646.5	647.6
15°	1442.9	1251.5	883.8	674.5	618.9	616.6	625.2	635.3	644.3	651.4	652.5
17.5°	1440.6	1206.7	800.1	620.3	597.2	608.0	622.2	634.9	643.1	649.9	650.6
20°	1435.4	1156.6	719.4	582.2	583.7	601.3	616.6	628.6	637.5	640.9	643.5
22.5°	1415.2	1096.8	649.1	552.7	567.7	591.9	610.3	617.4	607.3	600.2	602.0
25°	1380.8	1019.1	583.7	528.8	553.1	578.9	597.6	580.4	572.1	569.2	570.6
27.5°	1337.9	933.9	534.4	503.8	534.4	564.3	559.1	556.1	552.3	547.5	548.6
30°	1291.5	850.5	492.5	484.3	514.2	531.4	533.6	538.5	534.4	526.9	529.9
32.5°	1248.5	772.1	460.8	467.9	500.0	497.4	514.2	519.8	500.8	475.7	476.8
35°	1211.9	699.2	436.9	451.8	475.7	476.8	493.7	474.2	453.7	441.7	442.5
37.5°	1184.3	642.4	421.2	438.0	444.7	458.9	449.9	439.8	437.2	429.0	429.4
40°	1167.8	592.7	411.1	427.1	426.0	435.7	407.0	417.1	420.8	418.2	418.5
42.5°	1151.4	557.6	400.6	412.2	411.8	392.8	386.4	395.0	404.7	405.8	405.1
45°	1138.3	530.3	389.8	389.4	396.9	367.0	365.1	370.3	384.2	390.9	390.5
47.5°	1123.7	507.5	373.3	362.9	365.1	350.9	347.9	350.2	367.0	377.8	380.8
50°	1105.4	484.7	352.8	338.6	329.2	336.0	336.7	337.1	353.9	366.2	368.8
52.5°	1090.8	467.5	329.2	318.8	307.6	322.5	328.1	328.9	338.9	349.0	350.9
55°	1099.4	457.8	306.1	298.6	288.5	308.7	319.5	321.0	323.3	330.7	331.8
57.5°	1125.2	460.0	287.4	277.7	270.2	292.2	310.5	311.7	310.2	319.1	320.6
60°	1133.1	458.9	273.6	254.5	250.0	274.7	297.5	299.7	299.3	312.4	315.0
62.5°	1100.2	444.7	259.7	235.1	232.1	256.7	279.2	288.1	290.0	308.7	312.0
65°	1022.8	415.6	241.4	214.5	214.5	237.7	261.6	273.9	279.2	304.2	307.9
67.5°	920.8	381.2	222.7	196.9	196.2	219.4	242.9	255.6	263.8	297.8	300.1
70°	764.2	334.8	199.6	177.9	177.9	198.8	220.1	235.4	247.4	285.9	285.9
72.5°	523.6	278.4	171.5	156.2	156.6	176.0	197.7	214.9	229.1	262.0	262.7
75°	331.1	217.5	140.9	133.0	134.5	152.8	175.3	193.2	221.6	259.0	260.1
77.5°	176.0	152.8	112.1	110.2	112.1	128.9	154.0	178.6	222.4	224.6	220.9
80°	114.0	108.4	88.6	84.8	85.6	103.9	137.1	169.7	178.6	180.9	172.7
82.5°	62.0	68.8	62.8	59.0	59.0	81.1	117.0	134.9	128.2	106.5	101.6
85°	26.5	32.1	32.5	28.4	27.3	50.1	78.5	73.6	68.4	65.4	64.7
87.5°	7.5	10.5	10.5	7.8	6.0	13.8	15.7	4.5	0.0	0.4	0.7
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)