

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: STREETWORKS

Report Number: P320935

Luminaire Tested: **GAN-SA1D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7591 lumens
Efficiency: N/A
Efficacy: 113.3 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

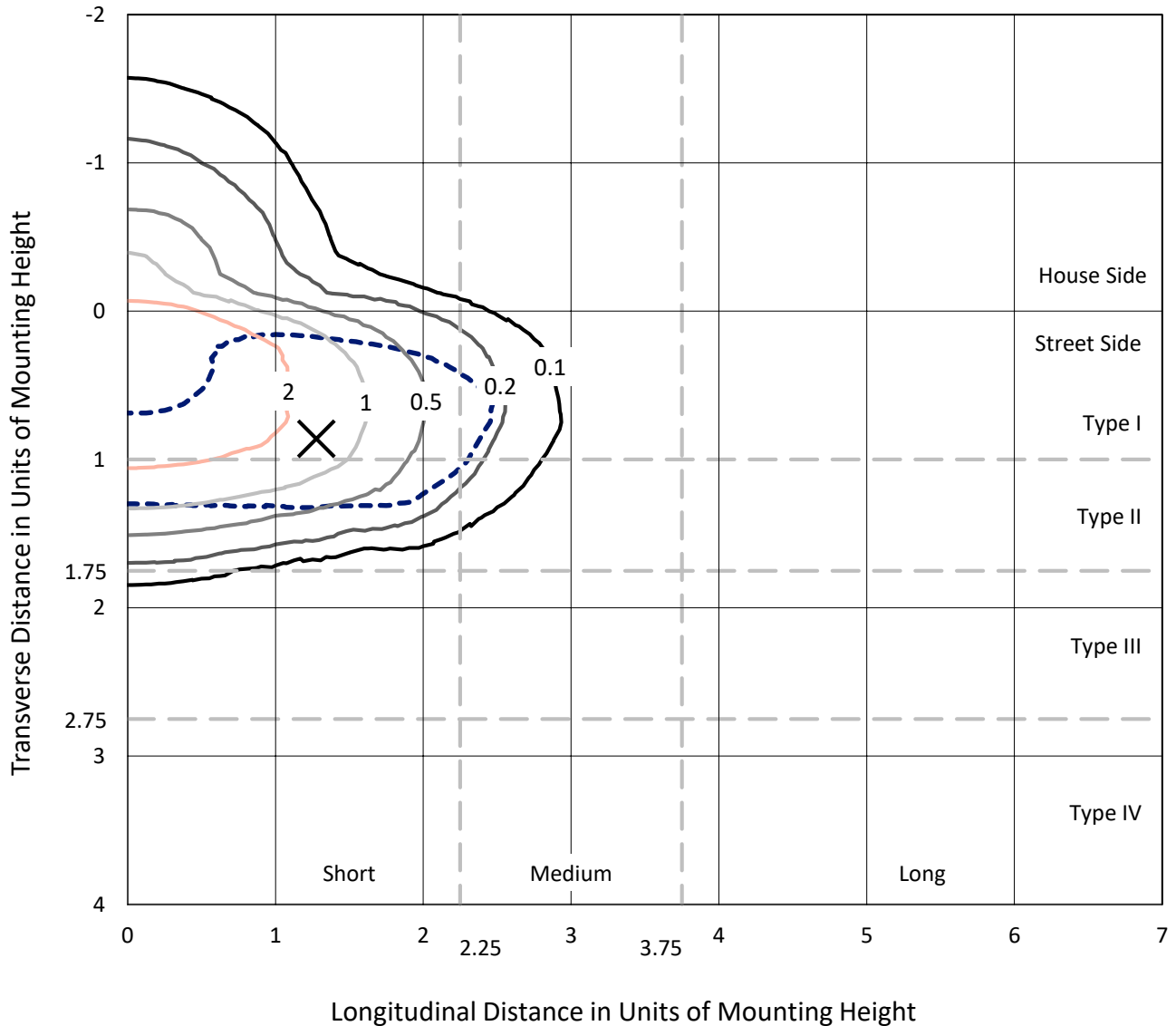
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

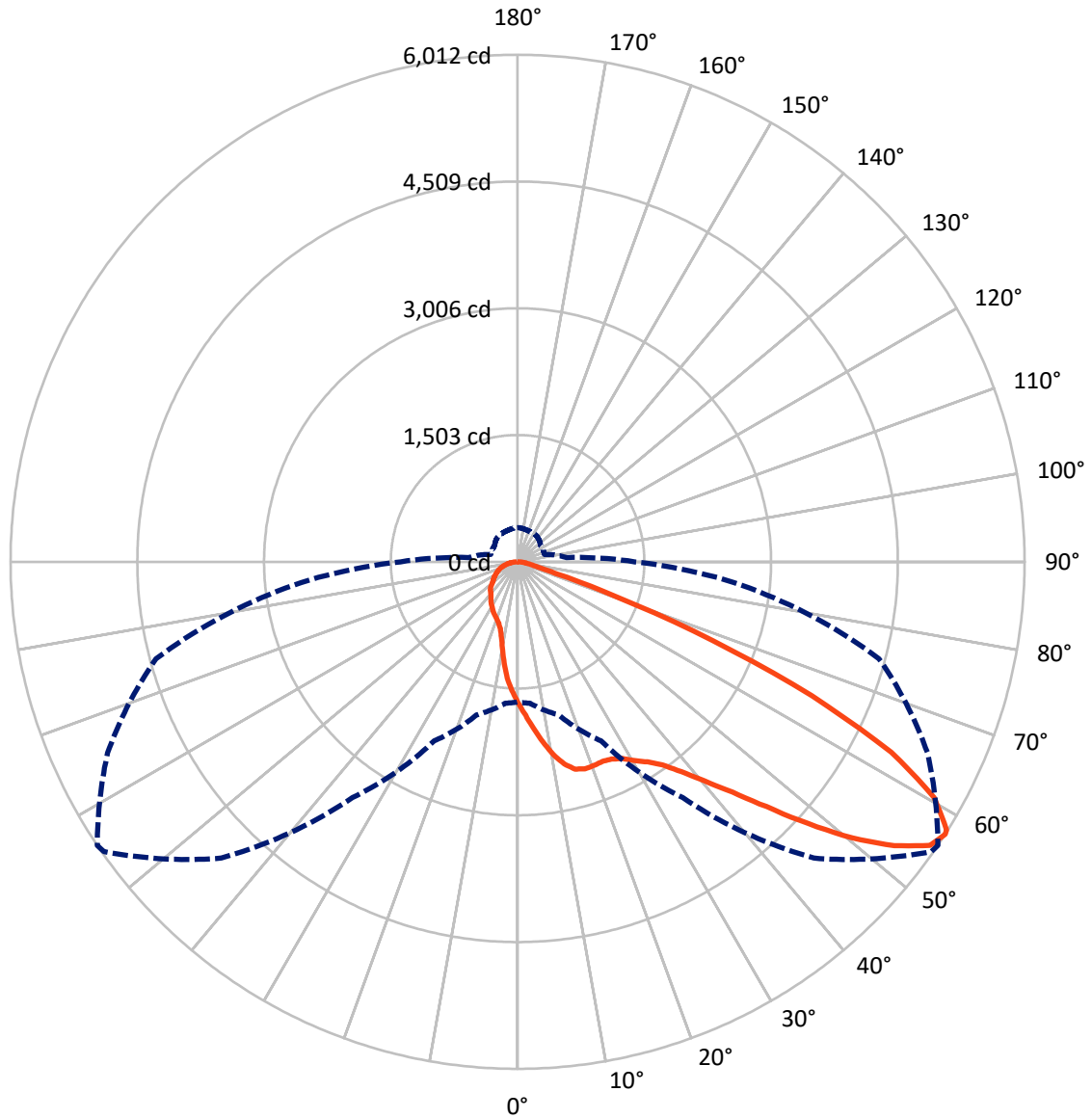
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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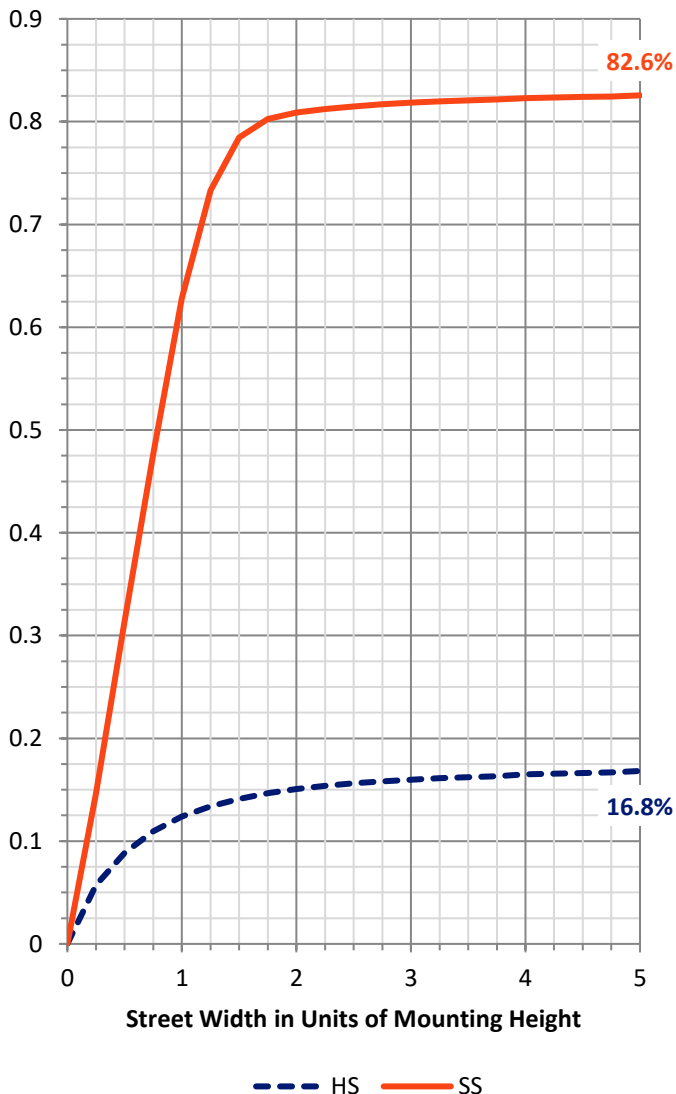
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1308.5	0.0	1308.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	6282.5	0.0	6282.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	7591.0	0.0	7591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.1
10°-20°	454.7	6.0
20°-30°	740.6	9.8
30°-40°	1107.2	14.6
40°-50°	1679.4	22.1
50°-60°	1882.3	24.8
60°-70°	1111.7	14.6
70°-80°	364.3	4.8
80°-90°	90.0	1.2
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°	7591.0	100.0
0°-180°	7591.0	100.0

Coefficient of Utilization

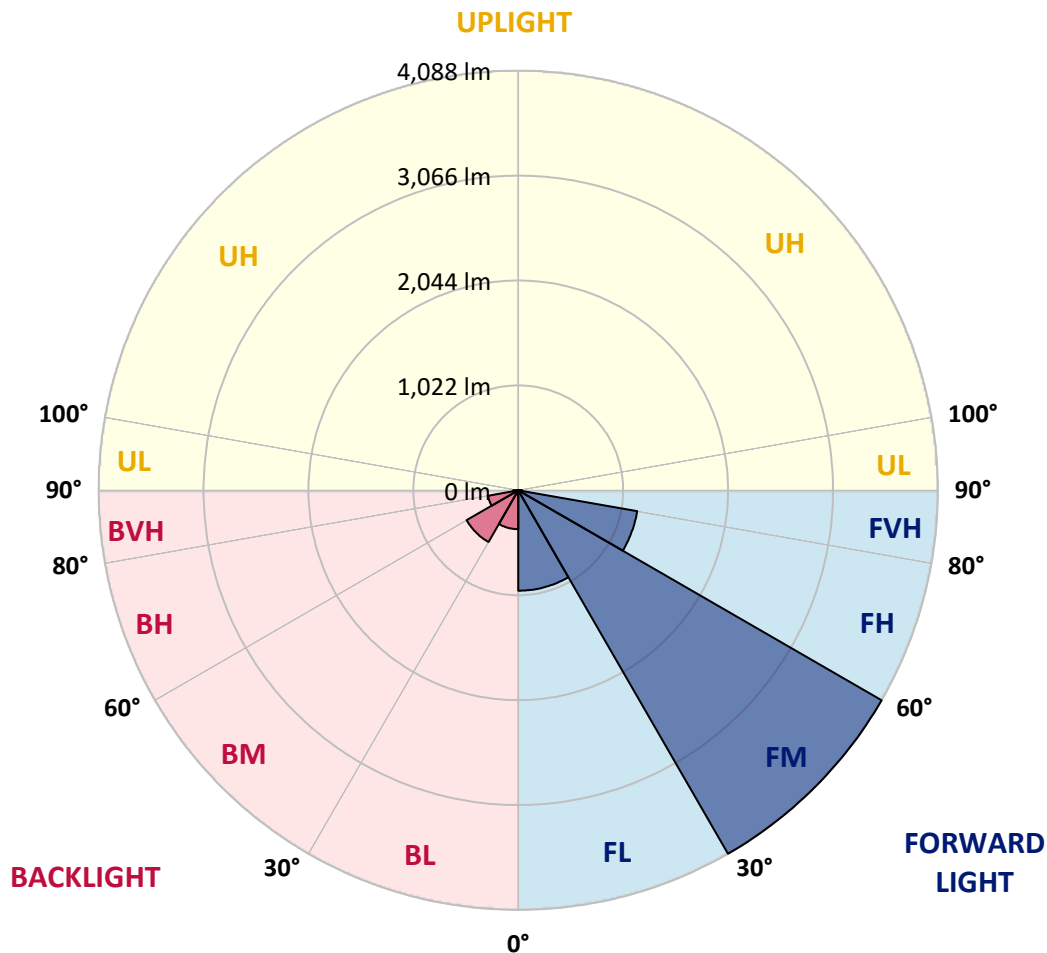


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.8	12.9			
FM (30°-60°)	4088.0	53.9			
FH (60°-80°)	1177.0	15.5			G1/1800
FVH (80°-90°)	39.6	0.5			G1/100
BL (0°-30°)	378.4	5.0	B1/500		
BM (30°-60°)	580.8	7.7	B1/1000		
BH (60°-80°)	299.0	3.9	B1/500		G1/500
BVH (80°-90°)	50.4	0.7			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°	56°	65°	75°	85°
0°	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7
2.5°	1933.3	1951.1	1943.3	1916.1	1895.3	1865.8	1832.9	1823.0	1788.3	1749.4	1702.7
5°	2239.4	2230.5	2217.7	2175.4	2130.8	2078.9	1996.5	1983.4	1906.2	1818.3	1725.4
7.5°	2413.6	2412.8	2405.3	2380.5	2339.8	2272.0	2172.6	2157.2	2040.6	1899.2	1755.2
10°	2388.3	2386.5	2399.0	2424.8	2437.1	2423.0	2339.3	2323.9	2180.7	1988.7	1789.6
12.5°	2244.6	2245.6	2265.7	2320.0	2393.8	2482.5	2468.9	2461.4	2326.0	2089.9	1831.3
15°	2132.7	2135.0	2150.9	2198.1	2285.3	2446.2	2547.7	2550.3	2466.6	2201.5	1880.1
17.5°	2083.6	2088.6	2095.9	2129.0	2208.8	2374.0	2566.5	2580.6	2589.7	2317.4	1927.1
20°	2099.3	2104.0	2106.0	2127.2	2192.7	2330.1	2553.4	2578.8	2684.1	2426.4	1974.0
22.5°	2169.4	2172.3	2173.6	2179.1	2230.0	2342.7	2544.8	2571.5	2752.5	2524.2	2009.5
25°	2285.8	2283.7	2275.4	2268.3	2302.5	2392.2	2564.7	2590.0	2808.1	2612.9	2032.7
27.5°	2425.1	2422.5	2406.3	2387.0	2406.6	2469.4	2621.8	2641.9	2857.9	2695.9	2044.5
30°	2592.3	2585.5	2555.0	2532.1	2539.6	2585.3	2716.0	2734.2	2934.8	2790.1	2056.0
32.5°	2785.6	2778.3	2734.2	2696.1	2696.1	2734.2	2813.0	2828.2	3000.1	2896.5	2074.5
35°	3027.7	3018.6	2961.2	2897.3	2879.3	2898.6	2945.3	2956.0	3117.5	3030.6	2108.1
37.5°	3313.1	3300.9	3226.5	3140.9	3101.5	3100.5	3134.2	3156.1	3305.0	3206.7	2165.3
40°	3599.3	3590.7	3525.7	3458.4	3381.2	3356.4	3408.3	3415.1	3550.3	3425.3	2238.3
42.5°	3820.5	3819.0	3807.0	3815.8	3736.8	3686.7	3727.4	3732.9	3849.7	3661.9	2316.1
45°	3937.4	3940.0	3998.2	4127.1	4156.3	4119.7	4139.8	4141.4	4192.0	3900.6	2387.3
47.5°	3843.7	3857.3	4004.4	4292.7	4531.9	4653.2	4619.8	4639.1	4523.8	4105.7	2443.1
50°	3478.8	3495.5	3745.9	4218.9	4707.2	5169.5	5152.0	5147.6	4791.5	4255.9	2473.4
52.5°	3026.7	3039.7	3246.3	3835.1	4578.6	5454.9	5615.3	5592.4	5029.4	4368.4	2479.1
55°	2338.2	2358.6	2556.6	3069.2	4058.4	5345.9	5956.0	5935.4	5246.2	4427.3	2472.3
57°	1662.3	1683.7	1880.4	2342.4	3414.1	4968.4	5990.0	6011.9	5363.3	4437.2	2479.9
57.5°	1483.3	1505.3	1700.1	2148.8	3213.2	4831.9	5960.7	5997.3	5384.5	4435.7	2484.1
60°	746.9	755.2	879.4	1199.5	2031.2	3906.4	5579.6	5673.8	5403.5	4359.0	2502.1
62.5°	464.4	458.4	454.4	552.5	988.2	2590.5	4793.1	4974.4	5039.1	4173.2	2458.5
65°	408.3	397.1	354.0	346.2	436.4	1258.2	3609.5	3835.1	4260.4	3880.5	2354.7
67.5°	383.5	372.5	324.0	294.8	295.1	498.8	2240.9	2495.0	3318.9	3385.6	2109.7
70°	357.9	348.0	302.6	268.2	251.2	276.3	1031.0	1223.8	2163.4	2661.2	1763.3
72.5°	325.1	318.3	275.2	239.7	221.7	206.9	394.7	466.2	1252.5	1787.3	1224.5
75°	290.6	284.4	247.6	213.7	191.7	162.8	222.3	239.5	636.3	914.4	602.9
77.5°	252.8	249.1	220.2	188.9	171.4	134.9	157.3	165.7	272.9	392.1	302.4
80°	201.1	208.2	192.5	168.3	152.1	108.0	111.4	116.9	158.9	191.5	171.7
82.5°	131.0	143.2	150.8	136.7	125.2	85.0	80.1	82.4	103.6	116.9	74.6
85°	54.5	61.3	99.1	89.5	83.2	62.1	53.7	54.8	64.2	66.5	30.5
87.5°	24.3	25.8	43.6	41.0	35.2	21.4	23.0	25.0	34.2	32.3	11.7
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°	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7	1683.7
2.5°	1685.3	1663.3	1625.8	1584.3	1550.4	1523.3	1495.9	1477.1	1455.2	1443.4	1437.4
5°	1686.6	1643.5	1564.5	1483.3	1410.8	1344.6	1281.4	1232.9	1187.5	1163.0	1156.2
7.5°	1692.0	1627.3	1499.5	1365.9	1237.1	1119.4	1028.6	971.8	930.8	912.5	907.3
10°	1696.5	1608.3	1419.2	1221.4	1046.1	926.9	856.5	824.6	810.5	808.2	805.8
12.5°	1706.9	1588.7	1334.6	1070.6	897.7	815.2	790.7	788.6	792.5	798.3	798.3
15°	1723.3	1569.4	1238.1	941.2	803.2	774.3	779.2	790.7	801.4	810.3	811.6
17.5°	1735.3	1545.7	1134.3	837.7	752.9	760.7	778.5	794.6	805.6	814.2	815.0
20°	1744.0	1508.9	1023.4	758.6	723.9	748.2	770.4	784.7	792.3	800.9	802.2
22.5°	1739.5	1459.6	925.1	702.0	700.5	729.9	751.1	768.3	762.5	754.2	759.7
25°	1718.1	1391.8	823.8	659.8	675.7	705.4	731.5	720.0	700.7	697.1	699.1
27.5°	1680.0	1305.2	730.2	620.6	647.0	682.7	681.1	669.7	662.9	658.2	661.1
30°	1639.1	1211.2	648.3	586.4	615.1	644.6	638.6	638.4	631.6	624.0	627.7
32.5°	1598.6	1116.8	583.3	558.3	591.1	595.1	608.1	612.0	598.7	582.8	581.8
35°	1563.4	1027.6	534.0	532.7	562.2	562.7	581.8	576.3	543.1	526.7	526.7
37.5°	1537.1	938.6	496.4	509.8	524.1	537.7	547.3	524.6	519.1	510.0	509.8
40°	1525.6	860.4	473.0	492.3	497.2	514.4	489.7	498.5	501.1	496.4	496.4
42.5°	1513.6	792.3	452.6	479.0	478.2	475.8	463.3	474.8	485.2	485.5	484.7
45°	1501.6	733.6	434.6	450.5	461.5	436.2	438.5	450.8	465.4	470.6	470.6
47.5°	1488.3	687.1	418.2	420.5	437.5	420.5	418.7	428.1	445.3	453.7	455.5
50°	1459.1	645.4	399.4	394.2	398.9	404.6	406.2	410.6	429.7	443.0	446.1
52.5°	1418.6	608.1	375.4	369.9	369.9	391.6	398.9	400.2	416.4	432.3	435.4
55°	1385.0	584.4	350.6	349.6	348.5	377.7	390.3	392.4	403.6	416.1	417.7
57°	1387.3	582.5	331.6	332.6	332.4	363.7	382.2	386.6	392.4	403.1	404.9
57.5°	1388.6	583.8	327.4	327.9	327.7	359.7	379.8	384.8	389.2	400.4	402.3
60°	1408.2	587.2	310.4	304.7	306.0	338.9	366.5	372.8	375.7	390.5	392.9
62.5°	1379.2	572.1	296.9	283.0	283.0	317.0	348.0	357.9	362.4	382.4	386.4
65°	1295.2	529.6	281.0	258.5	261.1	295.1	325.8	342.0	348.8	373.8	378.0
67.5°	1165.6	480.3	264.0	236.6	239.2	272.1	302.9	320.4	331.1	364.4	367.8
70°	996.8	420.0	241.0	213.4	216.5	247.0	275.7	295.6	311.5	355.6	356.6
72.5°	734.9	344.4	209.0	187.8	191.2	217.8	248.4	271.3	292.7	333.4	332.9
75°	437.0	269.2	173.5	162.0	164.4	189.1	223.6	251.5	283.6	324.8	329.7
77.5°	265.0	202.7	141.4	135.7	138.5	163.8	205.8	235.6	279.7	306.3	304.7
80°	160.2	144.8	113.0	109.3	112.2	140.1	190.4	223.6	244.4	261.7	261.7
82.5°	83.7	88.4	83.0	80.1	84.0	113.7	173.2	195.1	216.0	185.5	173.2
85°	34.2	46.2	50.3	50.1	52.4	78.8	149.5	167.0	139.3	132.3	135.4
87.5°	11.5	19.6	24.5	21.1	22.2	49.6	103.6	80.6	95.7	66.8	63.4
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)