

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: P382798

Luminaire Tested: **GAN-SA1D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382798
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7764.5 lumens
Efficiency: N/A
Efficacy: 115.9 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

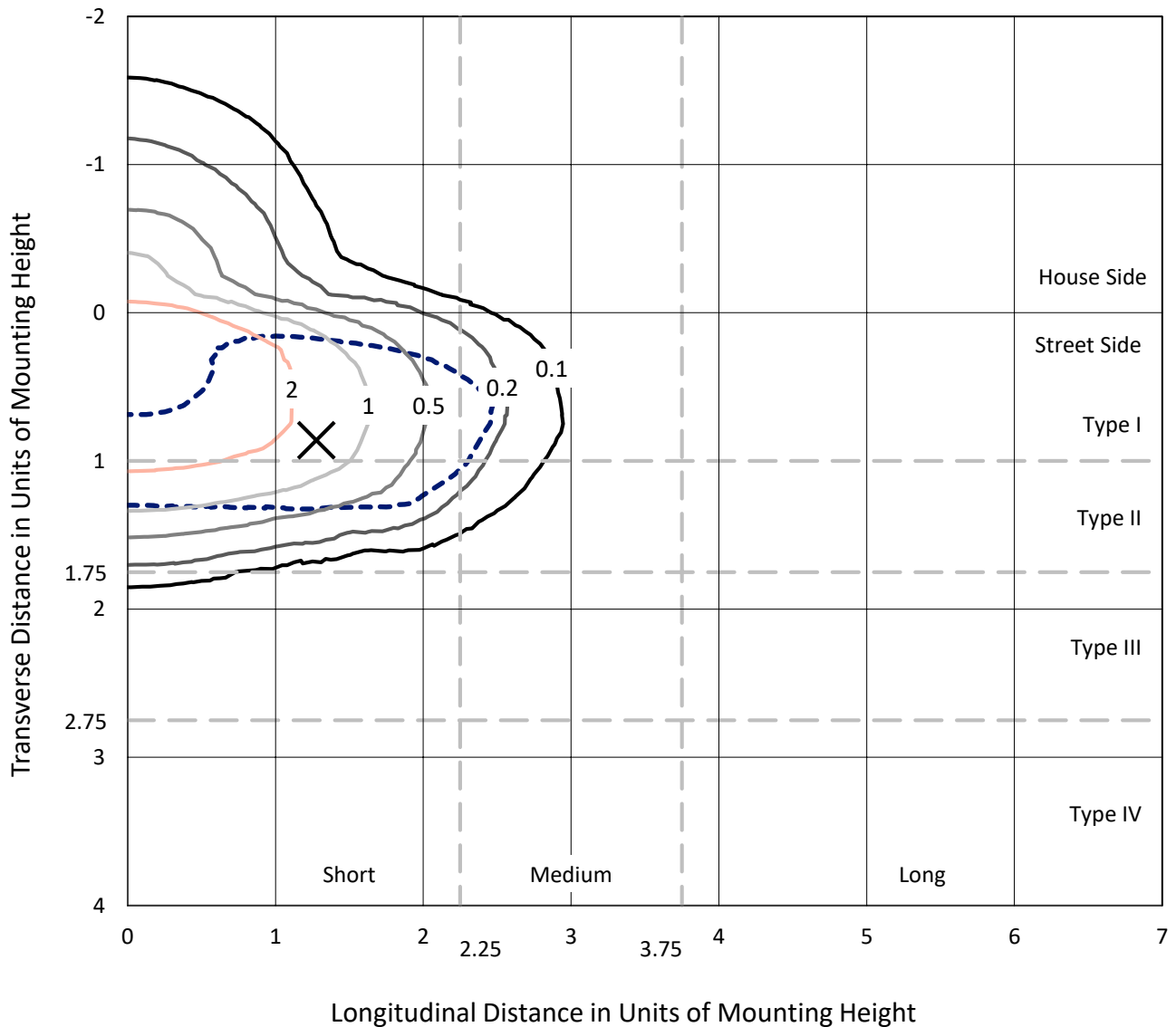
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382798
 CATALOG NUMBER: GAN-SA1D-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

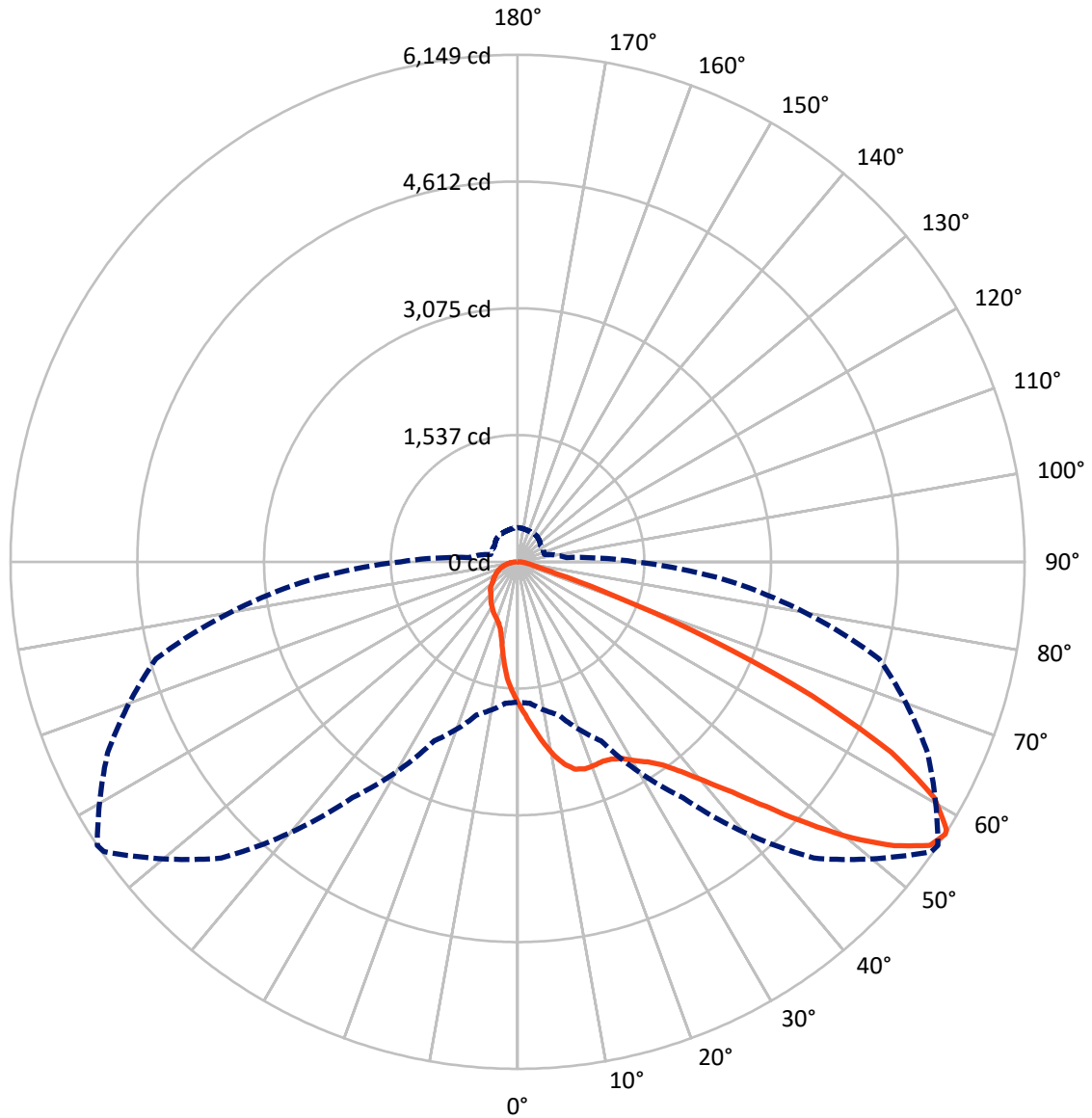
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P382798
CATALOG NUMBER: GAN-SA1D-735-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P382798
 CATALOG NUMBER: GAN-SA1D-735-U-AFL

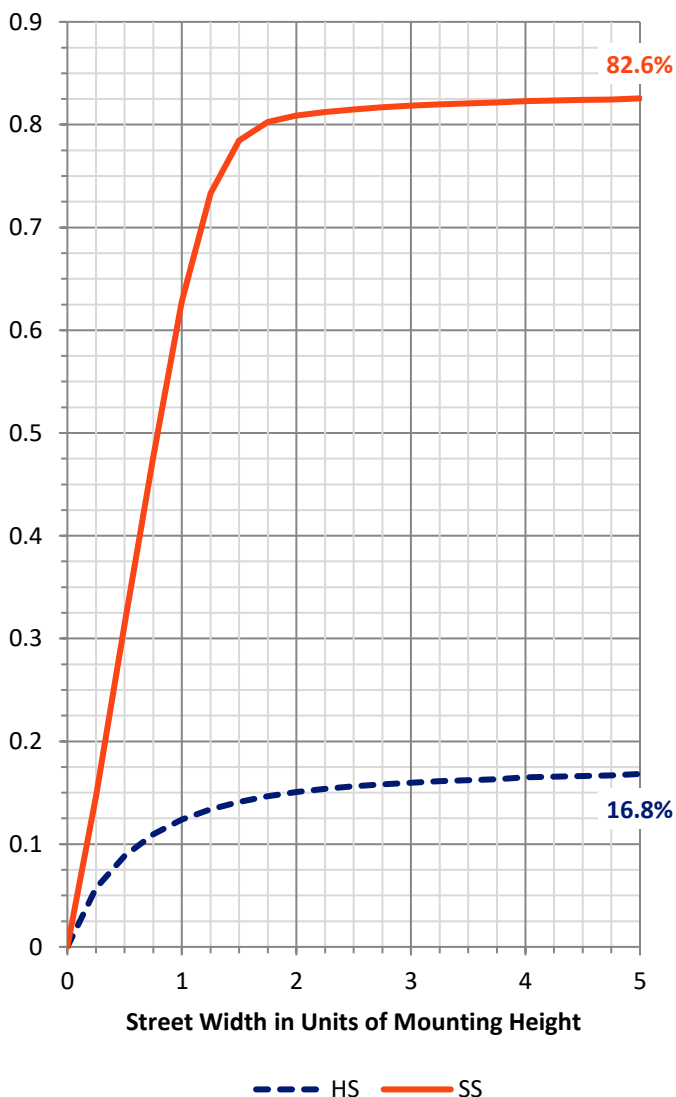
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1338.4	0.0	1338.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	6426.0	0.0	6426.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	7764.5	0.0	7764.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	2.1
10°-20°	465.1	6.0
20°-30°	757.6	9.8
30°-40°	1132.5	14.6
40°-50°	1717.7	22.1
50°-60°	1925.3	24.8
60°-70°	1137.1	14.6
70°-80°	372.6	4.8
80°-90°	92.1	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°	7764.5	100.0
0°-180°	7764.5	100.0

Coefficient of Utilization

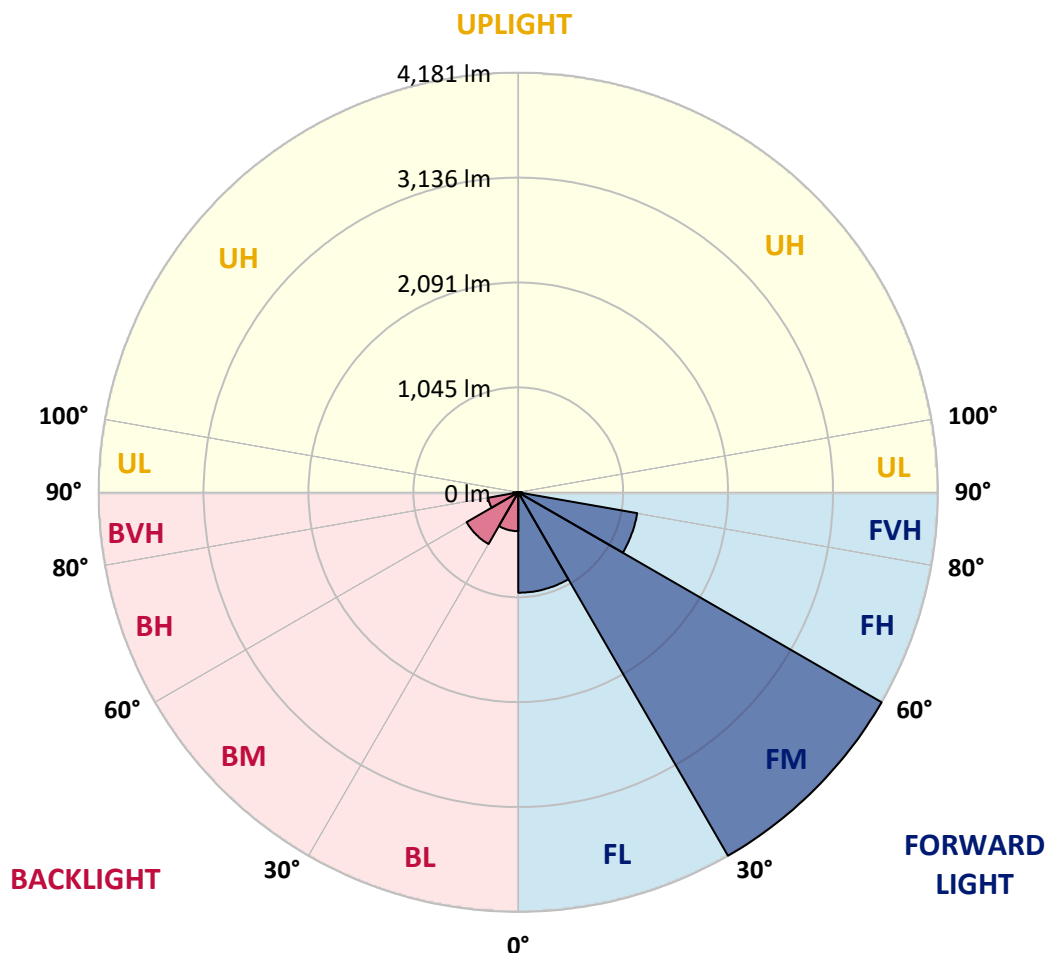


REPORT NUMBER: P382798
 CATALOG NUMBER: GAN-SA1D-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.2	12.9			
FM (30°-60°)	4181.4	53.9			
FH (60°-80°)	1203.9	15.5			G1/1800
FVH (80°-90°)	40.5	0.5			G1/100
BL (0°-30°)	387.0	5.0	B1/500		
BM (30°-60°)	594.1	7.7	B1/1000		
BH (60°-80°)	305.8	3.9	B1/500		G1/500
BVH (80°-90°)	51.5	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





REPORT NUMBER: P382798

CATALOG NUMBER: GAN-SA1D-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2
2.5°	1977.5	1995.7	1987.6	1959.9	1938.6	1908.4	1874.8	1864.7	1829.2	1789.4	1741.6
5°	2290.5	2281.5	2268.4	2225.2	2179.5	2126.4	2042.1	2028.7	1949.7	1859.8	1764.8
7.5°	2468.8	2467.9	2460.2	2434.9	2393.2	2323.8	2222.2	2206.5	2087.2	1942.6	1795.3
10°	2442.9	2441.0	2453.8	2480.2	2492.8	2478.4	2392.7	2376.9	2230.5	2034.1	1830.5
12.5°	2295.9	2296.9	2317.5	2372.9	2448.5	2539.2	2525.3	2517.6	2379.1	2137.6	1873.2
15°	2181.4	2183.8	2200.0	2248.4	2337.5	2502.1	2605.9	2608.6	2522.9	2251.8	1923.1
17.5°	2131.2	2136.3	2143.8	2177.7	2259.3	2428.2	2625.1	2639.5	2648.9	2370.3	1971.2
20°	2147.2	2152.1	2154.2	2175.8	2242.8	2383.4	2611.8	2637.7	2745.5	2481.8	2019.1
22.5°	2219.0	2221.9	2223.3	2228.9	2280.9	2396.2	2603.0	2630.2	2815.4	2581.9	2055.5
25°	2338.0	2335.9	2327.4	2320.1	2355.1	2446.9	2623.2	2649.1	2872.2	2672.6	2079.2
27.5°	2480.5	2477.8	2461.3	2441.6	2461.5	2525.9	2681.7	2702.2	2923.2	2757.5	2091.2
30°	2651.6	2644.6	2613.4	2589.9	2597.6	2644.4	2778.1	2796.7	3001.9	2853.8	2103.0
32.5°	2849.3	2841.8	2796.7	2757.8	2757.8	2796.7	2877.3	2892.7	3068.6	2962.7	2121.9
35°	3096.9	3087.5	3028.8	2963.4	2945.1	2964.8	3012.6	3023.5	3188.7	3099.8	2156.3
37.5°	3388.8	3376.3	3300.2	3212.7	3172.4	3171.4	3205.7	3228.2	3380.6	3280.0	2214.8
40°	3681.6	3672.7	3606.3	3537.5	3458.5	3433.1	3486.2	3493.1	3631.4	3503.6	2289.5
42.5°	3907.8	3906.3	3894.0	3903.0	3822.1	3770.9	3812.5	3818.1	3937.7	3745.6	2369.0
45°	4027.4	4030.1	4089.5	4221.3	4251.2	4213.9	4234.4	4236.0	4287.8	3989.7	2441.9
47.5°	3931.6	3945.5	4095.9	4390.8	4635.5	4759.6	4725.4	4745.1	4627.2	4199.5	2498.9
50°	3558.2	3575.4	3831.5	4315.3	4814.8	5287.7	5269.8	5265.2	4901.0	4353.1	2529.9
52.5°	3095.8	3109.1	3320.5	3922.7	4683.3	5579.5	5743.6	5720.2	5144.4	4468.2	2535.8
55°	2391.7	2412.4	2615.0	3139.3	4151.2	5468.0	6092.1	6071.1	5366.1	4528.4	2528.8
57°	1700.3	1722.2	1923.4	2395.9	3492.1	5081.9	6126.8	6149.2	5485.9	4538.6	2536.5
57.5°	1517.2	1539.7	1739.0	2197.9	3286.6	4942.3	6097.0	6134.3	5507.5	4537.0	2540.8
60°	764.0	772.5	899.5	1226.9	2077.6	3995.6	5707.1	5803.4	5527.0	4458.6	2559.2
62.5°	475.0	468.8	464.8	565.2	1010.8	2649.7	4902.5	5088.0	5154.3	4268.5	2514.6
65°	417.6	406.2	362.1	354.1	446.4	1286.9	3691.9	3922.7	4357.7	3969.2	2408.4
67.5°	392.3	381.0	331.4	301.5	301.8	510.2	2292.2	2552.1	3394.7	3463.0	2157.9
70°	366.1	355.9	309.6	274.3	256.9	282.5	1054.5	1251.7	2212.9	2722.0	1803.6
72.5°	332.5	325.6	281.5	245.2	226.8	211.6	403.7	476.9	1281.1	1828.1	1252.6
75°	297.3	290.8	253.2	218.5	196.1	166.5	227.4	245.0	650.8	935.3	616.7
77.5°	258.6	254.9	225.2	193.2	175.3	138.0	160.9	169.4	279.1	401.0	309.3
80°	205.7	213.0	196.9	172.1	155.6	110.5	113.9	119.5	162.5	195.9	175.6
82.5°	134.0	146.5	154.3	139.8	128.1	87.0	81.9	84.3	105.9	119.5	76.3
85°	55.8	62.7	101.4	91.6	85.1	63.5	55.0	56.1	65.7	68.0	31.2
87.5°	24.8	26.5	44.5	41.9	36.1	21.9	23.5	25.6	34.9	33.1	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382798
 CATALOG NUMBER: GAN-SA1D-735-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2	1722.2
2.5°	1723.7	1701.4	1662.9	1620.5	1585.8	1558.0	1530.1	1510.8	1488.4	1476.4	1470.3
5°	1725.1	1681.1	1600.2	1517.2	1443.1	1375.2	1310.7	1261.0	1214.6	1189.6	1182.6
7.5°	1730.7	1664.5	1533.8	1397.1	1265.3	1145.0	1052.1	994.0	952.0	933.4	928.1
10°	1735.2	1645.0	1451.6	1249.3	1070.0	948.0	876.0	843.4	829.1	826.7	824.2
12.5°	1745.9	1625.0	1365.1	1095.1	918.2	833.8	808.8	806.6	810.6	816.5	816.5
15°	1762.8	1605.2	1266.4	962.8	821.6	792.0	797.0	808.8	819.8	828.8	830.1
17.5°	1775.0	1581.0	1160.2	856.8	770.1	778.1	796.2	812.8	824.0	832.8	833.6
20°	1783.8	1543.4	1046.8	776.0	740.5	765.3	788.0	802.6	810.4	819.2	820.5
22.5°	1779.3	1493.0	946.2	718.0	716.5	746.6	768.2	785.9	780.0	771.4	777.0
25°	1757.4	1423.6	842.7	674.8	691.1	721.5	748.2	736.5	716.7	713.0	715.1
27.5°	1718.4	1335.0	746.9	634.8	661.8	698.3	696.7	685.0	678.1	673.2	676.1
30°	1676.5	1239.0	663.1	599.8	629.2	659.3	653.2	652.9	646.0	638.3	642.0
32.5°	1635.1	1142.4	596.7	571.0	604.7	608.7	622.0	626.0	612.4	596.1	595.1
35°	1599.2	1051.1	546.3	544.9	575.0	575.6	595.1	589.5	555.6	538.7	538.7
37.5°	1572.2	960.1	507.8	521.4	536.1	550.0	559.9	536.6	531.0	521.7	521.4
40°	1560.4	880.0	483.8	503.5	508.6	526.2	500.9	509.9	512.6	507.8	507.8
42.5°	1548.1	810.4	463.0	489.9	489.2	486.7	473.9	485.6	496.3	496.6	495.8
45°	1535.9	750.4	444.5	460.8	472.0	446.1	448.5	461.1	476.0	481.3	481.3
47.5°	1522.3	702.9	427.8	430.1	447.5	430.1	428.2	437.9	455.5	464.0	465.9
50°	1492.4	660.2	408.5	403.2	408.0	413.9	415.5	420.0	439.5	453.1	456.3
52.5°	1451.1	622.0	384.0	378.4	378.4	400.6	408.0	409.3	425.9	442.1	445.4
55°	1416.6	597.7	358.6	357.5	356.5	386.4	399.2	401.3	412.8	425.6	427.2
57°	1419.0	595.8	339.2	340.2	339.9	372.0	390.9	395.4	401.3	412.3	414.2
57.5°	1420.3	597.2	334.9	335.5	335.2	368.0	388.5	393.6	398.1	409.6	411.5
60°	1440.4	600.7	317.6	311.7	313.0	346.6	374.9	381.3	384.3	399.4	401.9
62.5°	1410.7	585.2	303.7	289.5	289.5	324.2	355.9	366.1	370.7	391.2	395.2
65°	1324.8	541.7	287.4	264.5	267.1	301.8	333.3	349.8	356.8	382.4	386.7
67.5°	1192.2	491.2	270.1	242.0	244.7	278.3	309.8	327.7	338.6	372.8	376.3
70°	1019.6	429.6	246.6	218.3	221.4	252.7	282.1	302.3	318.6	363.7	364.8
72.5°	751.7	352.2	213.7	192.1	195.6	222.8	254.0	277.5	299.4	341.0	340.5
75°	447.0	275.4	177.5	165.7	168.1	193.5	228.7	257.2	290.1	332.2	337.3
77.5°	271.1	207.4	144.7	138.8	141.7	167.6	210.5	241.0	286.1	313.3	311.7
80°	163.9	148.1	115.5	111.8	114.8	143.3	194.8	228.7	250.0	267.6	267.6
82.5°	85.6	90.5	84.9	81.9	85.9	116.4	177.2	199.6	221.0	189.8	177.2
85°	34.9	47.2	51.5	51.2	53.7	80.6	152.9	170.8	142.5	135.3	138.5
87.5°	11.7	20.0	25.1	21.6	22.6	50.7	105.9	82.4	97.9	68.3	64.8
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)