

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: P191710

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-AFL-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6569 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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: 28.75 FT

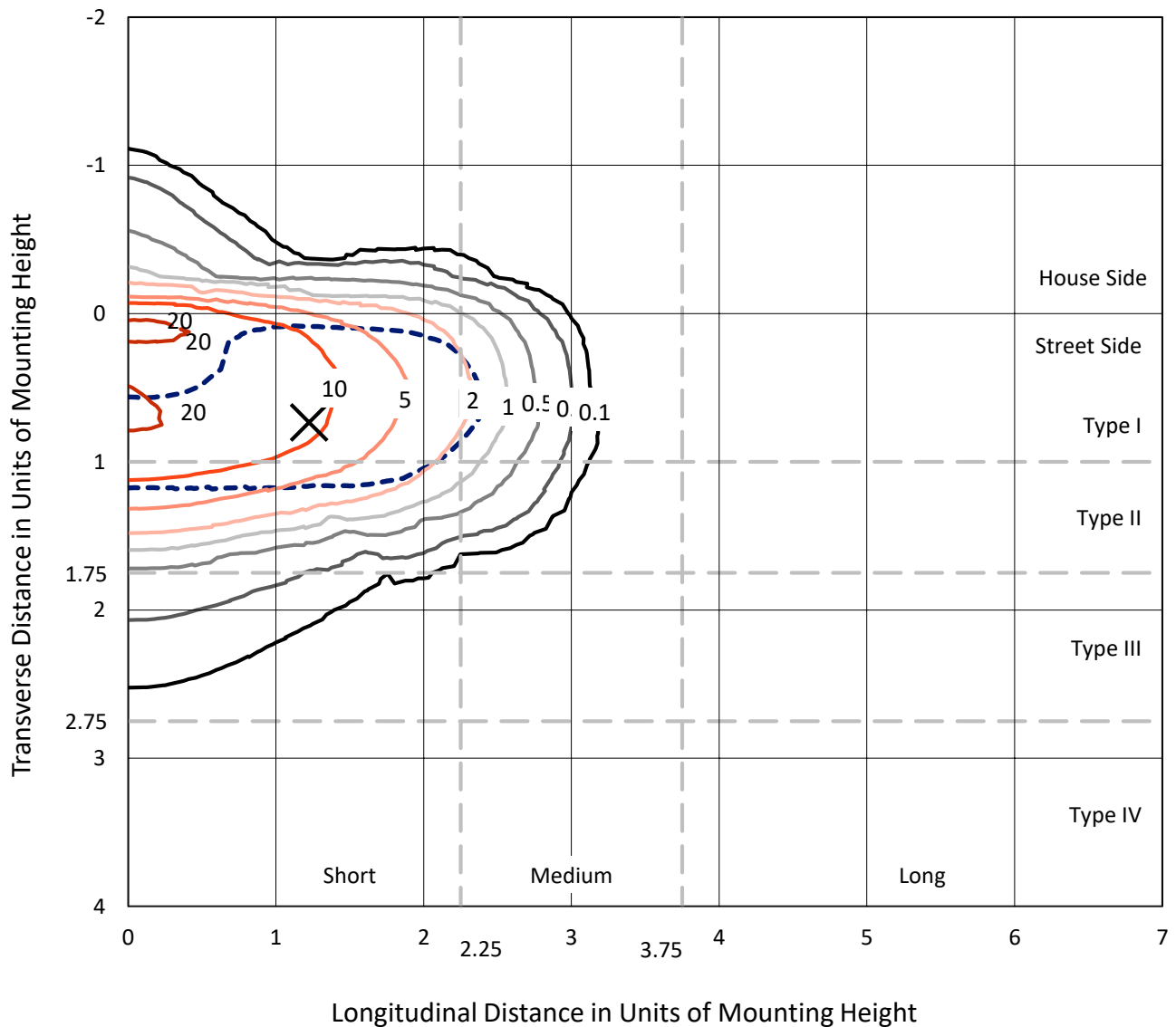


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

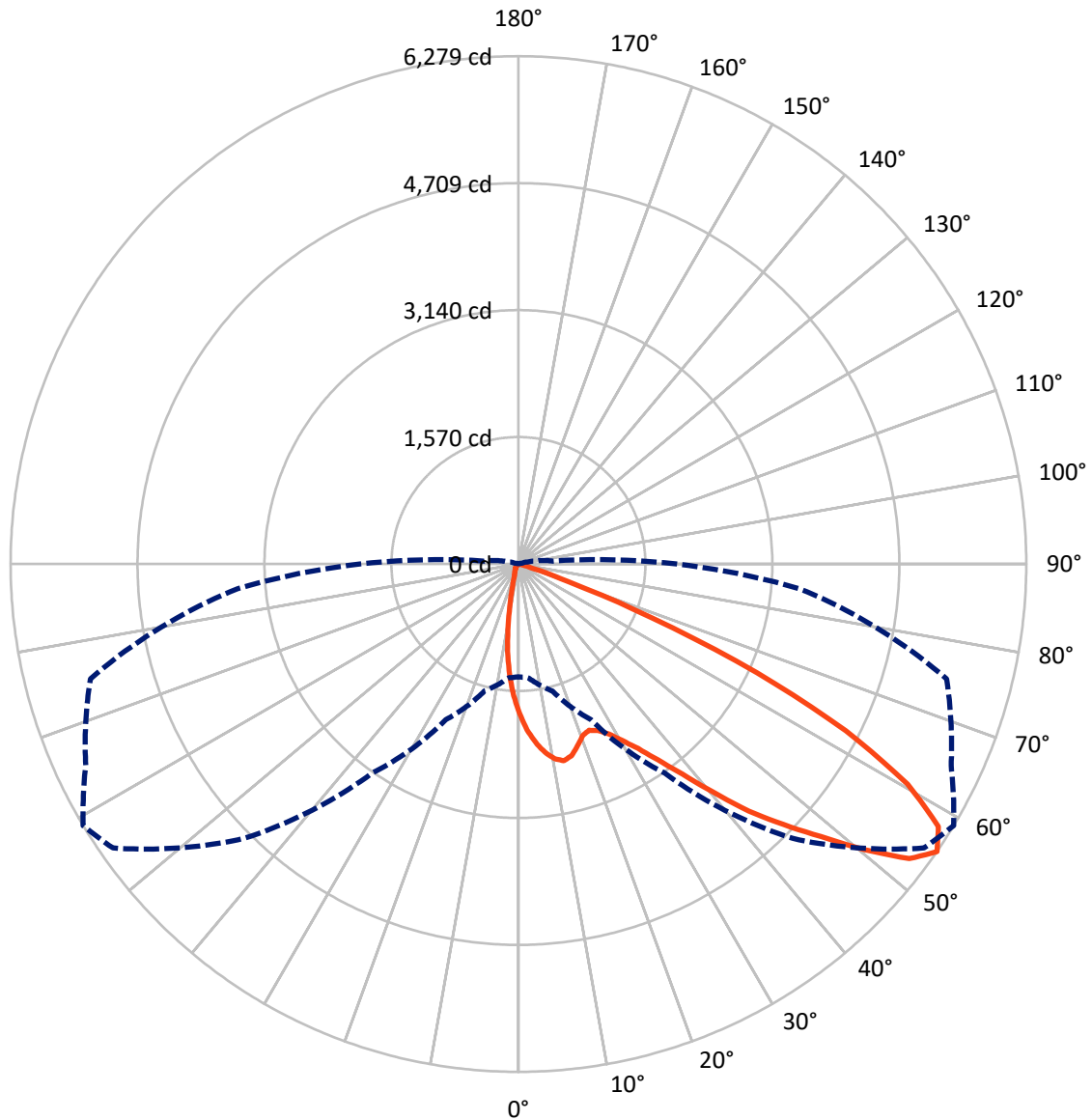


Based on 10 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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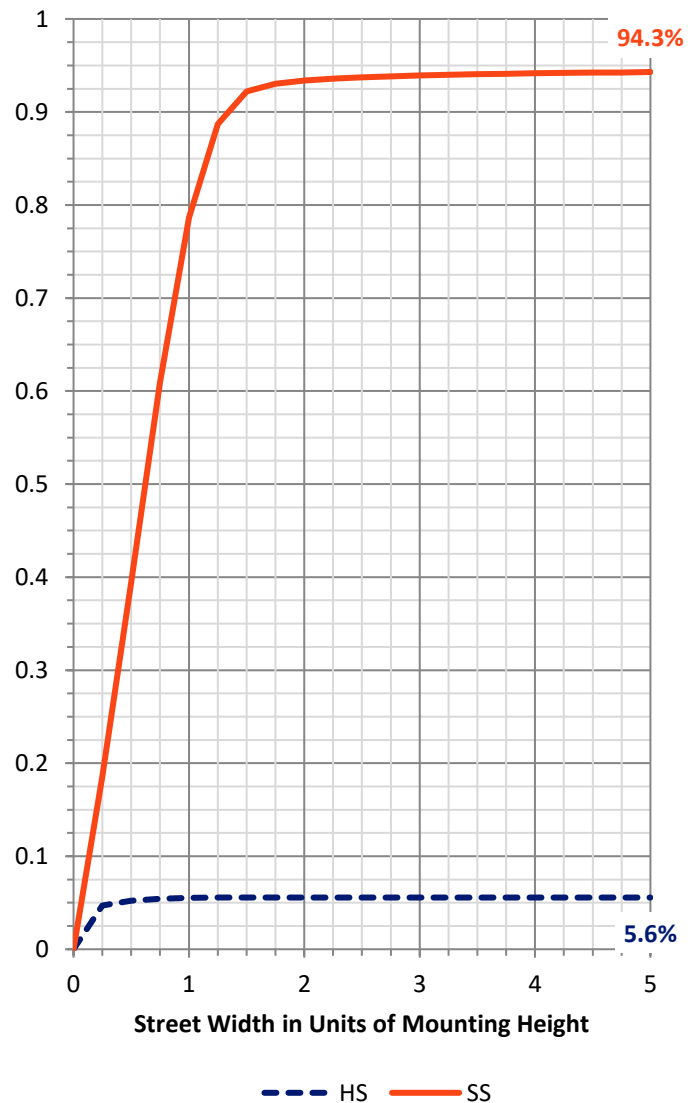
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	366.9	0.0	366.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6202.1	0.0	6202.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	6569.0	0.0	6569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	2.4
10°-20°	370.8	5.6
20°-30°	631.0	9.6
30°-40°	1085.2	16.5
40°-50°	1675.5	25.5
50°-60°	1684.4	25.6
60°-70°	863.8	13.1
70°-80°	93.6	1.4
80°-90°	9.8	0.1
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°	6569.0	100.0
0°-180°	6569.0	100.0

Coefficient of Utilization



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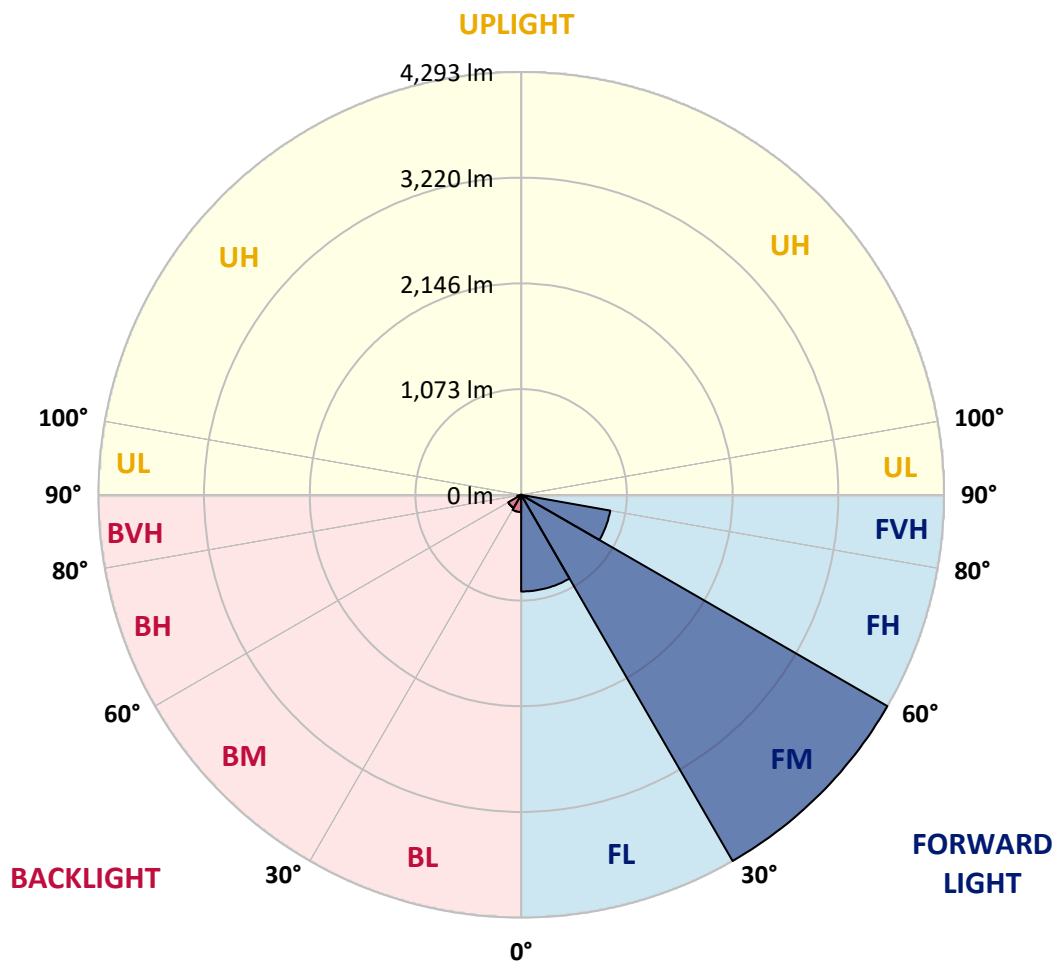
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.6	14.9			
FM (30°-60°)	4292.8	65.3			
FH (60°-80°)	918.1	14.0			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	175.1	2.7	B1/500		
BM (30°-60°)	152.3	2.3	B0/220		
BH (60°-80°)	39.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
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°	59°	65°	75°	85°
0°	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1
2.5°	2188.0	2164.7	2157.7	2153.1	2131.8	2105.0	2068.6	2051.5	2016.6	1960.4	1891.4
5°	2388.4	2384.1	2368.6	2360.1	2337.2	2299.2	2241.1	2213.2	2157.7	2063.1	1939.5
7.5°	2300.8	2327.5	2348.8	2384.5	2429.5	2427.9	2379.1	2350.0	2288.0	2163.2	1993.0
10°	1962.3	1984.1	2018.9	2100.0	2265.1	2410.9	2468.2	2447.3	2397.7	2255.0	2044.5
12.5°	1896.1	1893.7	1899.9	1923.6	2010.0	2217.8	2453.1	2495.4	2485.3	2339.2	2093.4
15°	1931.3	1928.6	1927.8	1936.0	1956.9	2044.5	2339.5	2460.9	2538.8	2417.1	2134.9
17.5°	2030.2	2018.6	2012.4	2005.8	1999.6	2021.3	2203.1	2364.4	2546.9	2485.3	2169.4
20°	2199.6	2180.2	2157.3	2120.1	2085.2	2074.4	2145.7	2265.1	2517.9	2537.3	2191.8
22.5°	2412.4	2387.6	2348.1	2280.2	2209.3	2168.2	2174.0	2233.7	2474.4	2593.8	2202.3
25°	2651.6	2619.8	2567.1	2472.9	2368.6	2295.7	2257.7	2278.7	2454.7	2660.1	2214.3
27.5°	2907.9	2872.6	2803.6	2675.3	2557.0	2458.6	2381.0	2378.3	2488.4	2747.0	2233.7
30°	3161.8	3156.3	3066.4	2930.7	2774.1	2654.3	2542.7	2528.3	2582.6	2867.2	2272.1
32.5°	3500.6	3459.9	3349.8	3210.2	3029.6	2885.8	2753.6	2720.2	2727.2	3007.1	2331.4
35°	3927.8	3883.2	3728.1	3535.5	3333.5	3163.7	3017.6	2972.2	2955.2	3236.2	2431.4
37.5°	4203.8	4203.0	4105.7	3909.6	3692.9	3505.6	3346.7	3293.6	3259.1	3513.0	2586.5
40°	4211.2	4229.4	4242.2	4240.3	4086.0	3913.5	3772.3	3706.8	3626.6	3882.8	2786.9
42.5°	3985.2	4032.1	4144.9	4336.4	4427.9	4359.3	4240.3	4175.9	4056.5	4278.6	3031.1
45°	3679.7	3712.3	3909.6	4262.3	4613.2	4801.2	4710.5	4595.4	4438.0	4691.5	3250.2
47.5°	3542.8	3548.7	3676.2	4063.5	4627.1	5163.3	5218.3	5031.1	4784.5	5024.1	3421.5
50°	3133.9	3144.3	3320.3	3718.8	4463.5	5334.2	5728.5	5550.9	5162.5	5280.3	3483.9
52.5°	2362.0	2376.8	2600.1	3152.5	4013.9	5261.4	6093.7	6050.6	5576.5	5405.6	3487.4
55°	1393.6	1413.0	1626.2	2122.1	3157.1	4797.7	6120.8	6279.0	5903.3	5479.6	3482.0
57.5°	650.9	664.5	786.6	1093.2	1963.5	3791.7	5712.2	6122.4	6083.6	5518.8	3520.4
60°	345.8	349.7	379.1	473.3	887.4	2404.3	4914.8	5528.5	5919.2	5573.0	3567.3
62.5°	264.4	265.5	264.0	275.2	372.9	1067.2	3715.0	4545.0	5257.5	5532.3	3515.3
65°	229.1	231.0	220.2	217.5	239.2	380.7	2207.0	3239.7	4131.3	4983.0	3161.4
67.5°	205.5	206.2	193.1	181.8	185.7	205.8	870.7	1773.6	2734.6	3652.6	2291.5
70°	189.2	188.4	174.1	156.2	151.2	140.7	276.8	650.1	1306.8	1852.3	1065.7
72.5°	167.5	167.9	160.9	137.6	125.6	98.5	128.3	189.6	390.0	504.7	249.7
75°	148.5	146.5	138.0	123.3	103.5	64.7	63.6	84.5	120.2	119.4	53.9
77.5°	107.4	105.4	108.2	101.2	79.5	41.9	31.8	40.7	48.8	47.3	15.1
80°	78.7	77.5	69.8	84.1	70.2	28.7	19.8	21.7	25.2	21.3	4.7
82.5°	53.9	53.5	49.2	46.5	39.9	17.4	12.4	13.6	16.3	12.0	2.3
85°	8.5	9.7	35.7	28.3	23.6	7.8	8.5	9.3	10.9	6.6	0.8
87.5°	0.0	0.0	16.7	14.7	4.7	3.1	5.0	5.4	5.4	3.5	0.0
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°	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1
2.5°	1856.1	1817.4	1745.6	1671.6	1603.0	1521.2	1465.0	1422.7	1373.9	1360.7	1389.4
5°	1868.9	1795.7	1641.4	1473.5	1315.7	1140.9	1007.1	901.3	805.6	773.0	802.5
7.5°	1889.1	1780.1	1528.6	1252.1	977.7	704.8	517.9	395.0	316.7	293.5	305.9
10°	1909.2	1757.7	1397.9	990.1	614.8	343.1	223.3	178.3	161.7	158.2	160.1
12.5°	1925.9	1727.4	1238.6	704.0	328.7	183.8	146.1	138.8	136.5	136.5	137.2
15°	1936.0	1681.7	1049.8	447.8	189.2	138.8	127.5	125.2	125.2	125.6	126.4
17.5°	1934.8	1623.5	843.2	271.0	141.5	122.9	116.3	114.4	114.0	114.7	115.1
20°	1920.5	1547.5	635.8	178.7	123.3	112.0	105.4	102.0	101.6	102.3	103.1
22.5°	1893.3	1453.7	454.7	137.6	111.3	101.6	93.4	90.3	90.3	91.1	91.9
25°	1860.4	1339.0	310.9	116.7	100.4	90.3	82.6	79.9	80.6	82.6	83.0
27.5°	1819.3	1209.9	211.3	100.0	87.2	79.1	73.3	71.3	73.3	76.0	76.8
30°	1784.0	1075.4	150.8	86.4	74.0	68.2	64.7	64.7	67.5	72.5	73.7
32.5°	1756.9	945.1	116.3	76.4	64.4	59.3	57.4	59.3	63.6	68.6	69.8
35°	1753.4	837.7	98.5	68.2	57.4	52.3	51.6	55.0	59.3	63.2	64.0
37.5°	1780.1	738.5	88.8	61.6	51.2	46.5	45.7	50.0	54.3	58.9	60.1
40°	1830.9	660.6	81.8	55.4	46.1	41.1	39.5	42.6	48.5	54.7	56.2
42.5°	1896.8	596.2	74.0	49.2	41.1	34.1	32.2	35.7	41.9	48.5	50.4
45°	1959.6	540.8	65.5	42.3	34.5	26.4	25.6	30.2	33.3	39.9	41.5
47.5°	1994.1	491.9	58.1	34.5	26.7	21.3	21.3	22.5	25.6	33.3	34.9
50°	1982.5	452.8	50.4	25.6	18.6	16.3	16.3	15.9	20.5	26.7	27.9
52.5°	1959.2	430.3	43.4	19.8	12.8	11.6	10.5	11.6	14.3	17.1	17.4
55°	1955.8	426.4	36.4	15.9	8.9	7.8	5.8	5.8	5.8	5.4	4.7
57.5°	1982.9	432.6	30.6	12.8	6.6	5.0	3.1	0.0	0.0	0.0	0.0
60°	2010.8	439.2	26.4	8.9	4.7	2.7	0.4	0.0	0.0	0.0	0.0
62.5°	1964.3	424.5	22.1	5.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0
65°	1725.5	361.3	17.4	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1227.3	241.9	11.6	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	560.2	101.2	7.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	119.8	31.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.4	22.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)