

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: P323856

Luminaire Tested: **GAN-SA2D-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12885 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

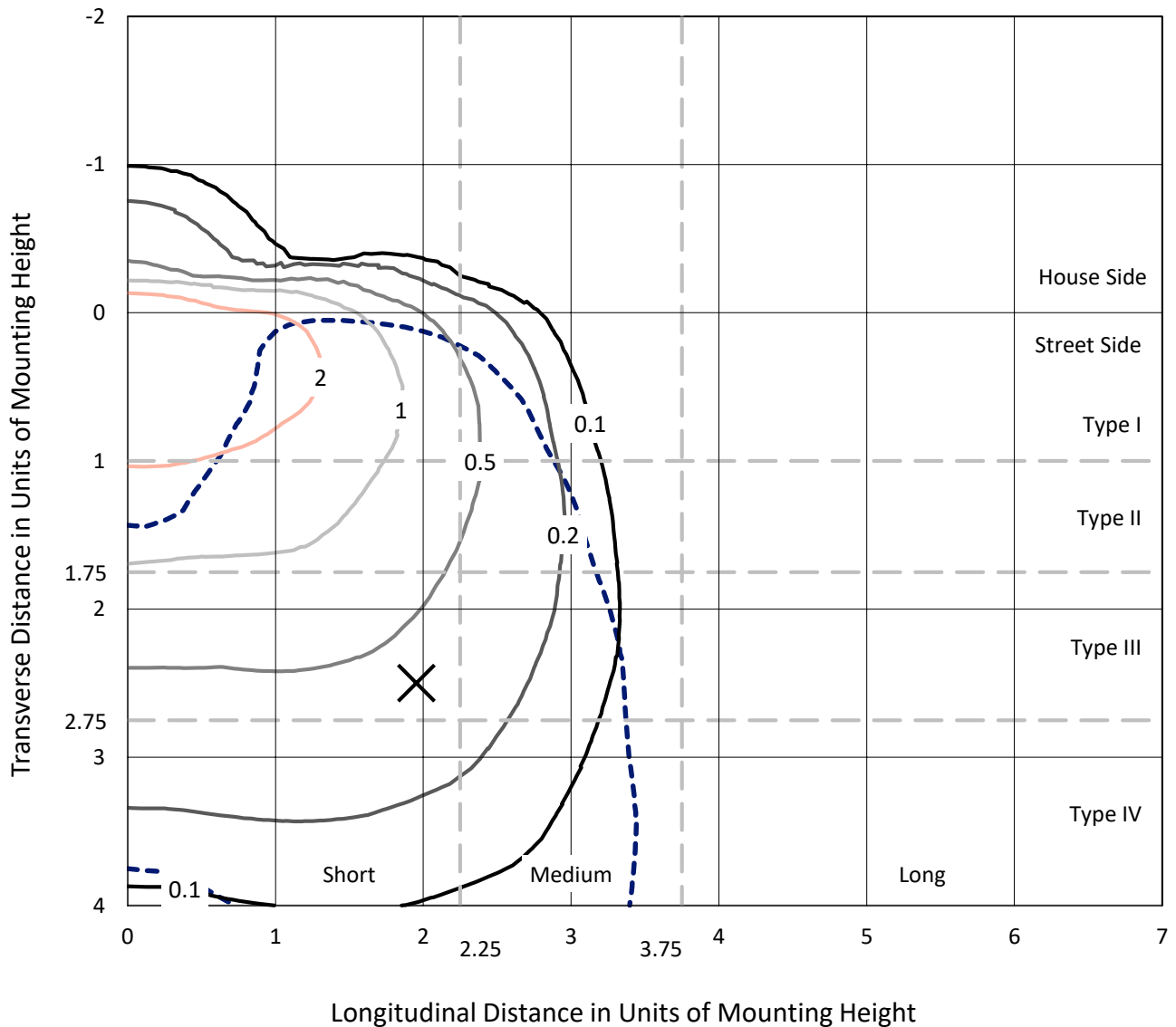
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

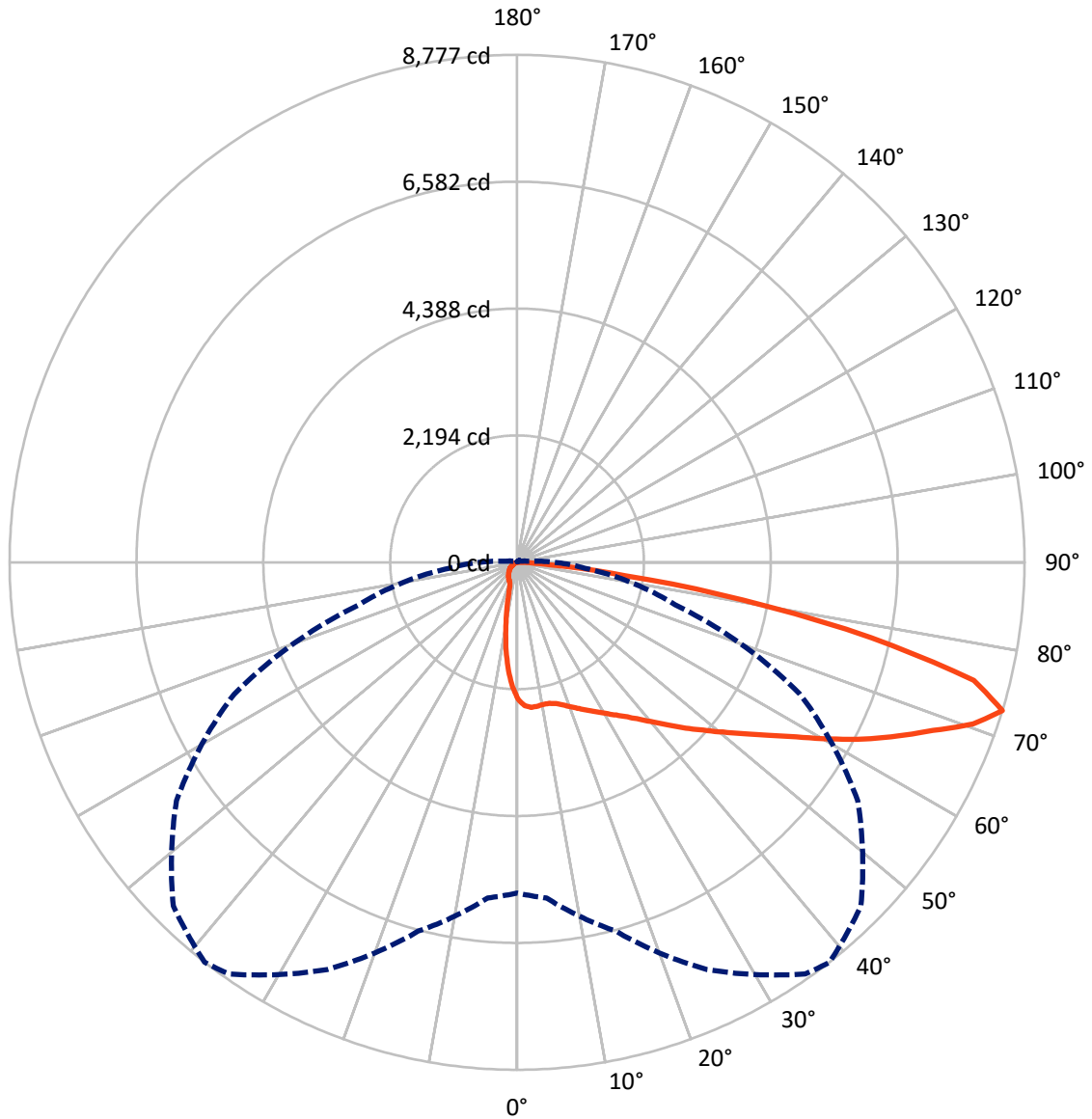
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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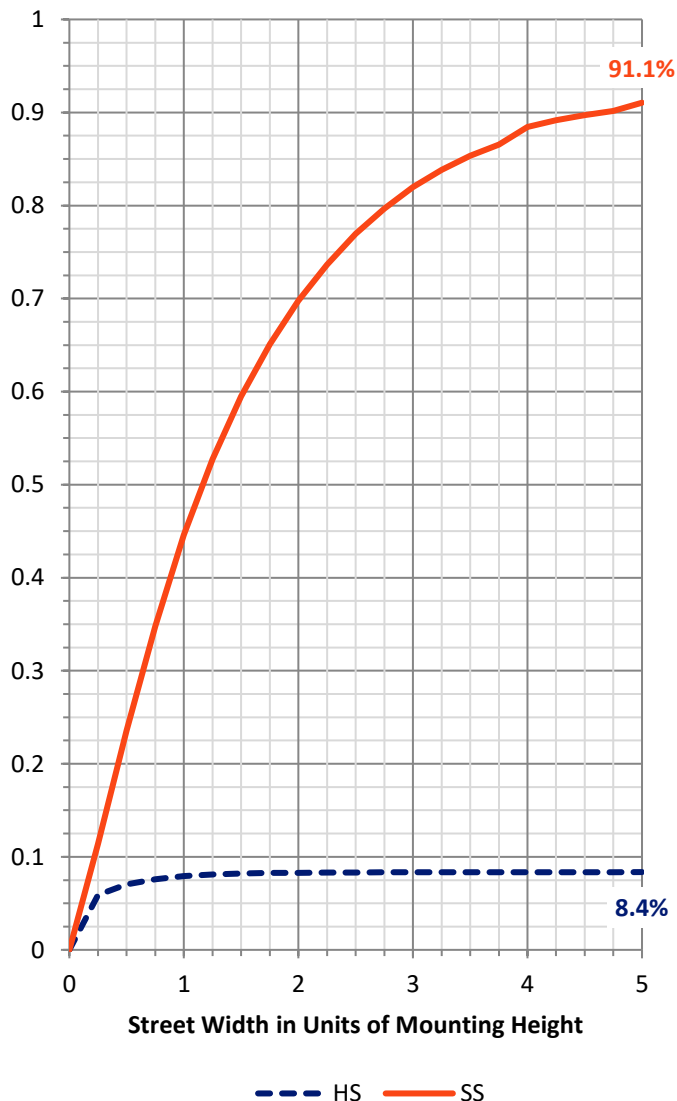
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.3	0.0	1084.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11800.7	0.0	11800.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	12885.0	0.0	12885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.6
10°-20°	493.8	3.8
20°-30°	785.3	6.1
30°-40°	1180.6	9.2
40°-50°	1801.1	14.0
50°-60°	2545.6	19.8
60°-70°	3193.1	24.8
70°-80°	2387.5	18.5
80°-90°	296.0	2.3
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°	12885.0	100.0
0°-180°	12885.0	100.0

Coefficient of Utilization



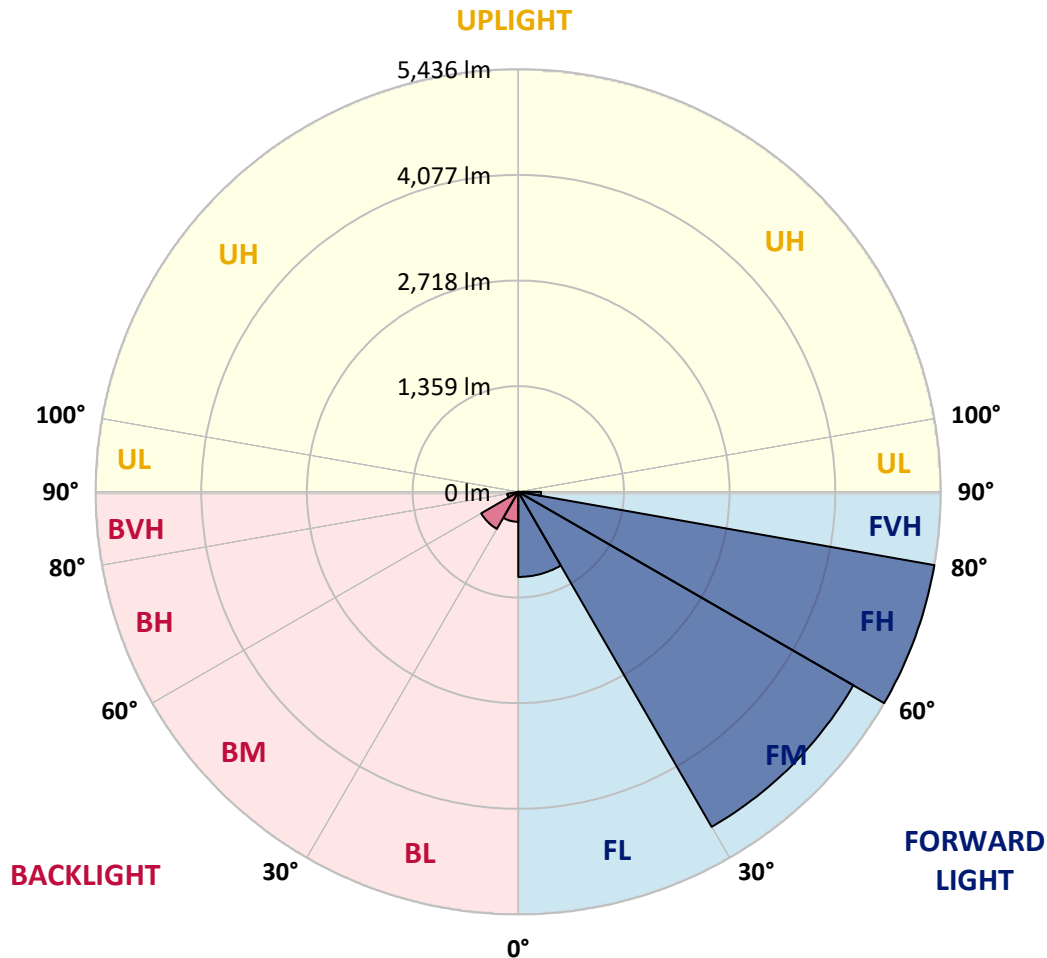
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.9	8.5			
FM (30°-60°)	4976.8	38.6			
FH (60°-80°)	5435.7	42.2			G3/7500
FVH (80°-90°)	293.3	2.3			G3/500
BL (0°-30°)	386.1	3.0	B1/500		
BM (30°-60°)	550.6	4.3	B1/1000		
BH (60°-80°)	144.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5
2.5°	2515.1	2515.6	2509.7	2500.1	2487.8	2481.3	2470.6	2453.5	2435.3	2402.7	2367.4
5°	2566.4	2566.4	2558.9	2546.1	2526.3	2520.4	2500.1	2472.8	2435.3	2382.4	2323.0
7.5°	2561.1	2562.2	2552.0	2538.6	2518.8	2513.5	2488.8	2458.3	2411.8	2347.6	2271.6
10°	2533.3	2535.9	2527.9	2521.5	2503.3	2497.4	2474.4	2443.9	2397.3	2328.8	2241.6
12.5°	2504.9	2507.6	2510.2	2516.1	2504.9	2502.8	2484.6	2458.9	2414.5	2343.3	2244.8
15°	2486.7	2492.1	2511.3	2534.3	2537.0	2534.9	2523.1	2499.0	2454.1	2380.2	2267.8
17.5°	2486.7	2495.3	2535.4	2579.3	2594.8	2596.4	2586.2	2552.5	2499.0	2419.8	2289.2
20°	2507.6	2519.3	2582.0	2644.0	2669.7	2669.7	2649.9	2602.8	2540.2	2455.7	2303.7
22.5°	2561.1	2576.6	2655.3	2727.0	2754.3	2748.4	2721.6	2653.1	2583.0	2496.3	2321.9
25°	2666.5	2678.3	2760.1	2832.4	2849.0	2835.6	2801.9	2714.1	2637.6	2551.4	2355.1
27.5°	2802.4	2804.0	2888.6	2949.6	2939.4	2930.3	2888.0	2790.6	2716.3	2630.1	2412.3
30°	2951.7	2951.7	3026.1	3072.7	3041.6	3034.1	2991.9	2883.2	2816.9	2737.1	2493.7
32.5°	3096.2	3102.6	3163.1	3192.5	3157.7	3150.2	3109.0	3000.4	2950.6	2900.3	2620.5
35°	3235.9	3240.7	3297.9	3314.0	3280.8	3283.0	3253.5	3161.5	3142.8	3136.3	2811.5
37.5°	3371.3	3372.3	3430.7	3440.8	3424.2	3442.4	3445.1	3363.8	3398.5	3450.5	3080.7
40°	3494.9	3495.9	3553.7	3579.9	3608.3	3631.9	3652.7	3609.4	3724.4	3844.8	3401.2
42.5°	3593.9	3605.1	3678.4	3728.2	3803.1	3848.0	3904.8	3902.6	4112.4	4293.3	3788.6
45°	3681.1	3700.4	3802.6	3889.8	4018.2	4089.9	4178.7	4248.3	4549.1	4792.5	4180.9
47.5°	3796.1	3814.3	3931.0	4073.9	4245.1	4339.3	4486.4	4636.8	5029.1	5282.7	4564.0
50°	3958.3	3950.3	4065.3	4270.3	4490.2	4613.8	4823.6	5048.9	5505.3	5709.7	4789.3
52.5°	4131.1	4127.9	4213.0	4483.8	4779.2	4923.6	5200.8	5474.8	5960.7	6004.0	4892.6
55°	4345.2	4322.2	4393.9	4727.2	5122.2	5277.3	5603.8	5896.5	6323.5	6169.9	4944.5
57.5°	4569.4	4531.4	4599.9	4998.6	5509.1	5692.6	6050.1	6307.5	6564.8	6283.4	4944.0
60°	4801.1	4756.1	4837.5	5337.8	5989.6	6202.0	6533.8	6585.2	6790.1	6340.6	4907.6
62.5°	4994.8	4968.0	5089.0	5700.6	6526.3	6735.0	6899.3	6837.8	6980.1	6385.0	4822.5
65°	5199.8	5201.4	5396.7	6123.9	7096.8	7237.5	7251.4	7165.2	7139.0	6375.9	4534.6
67.5°	5476.9	5502.6	5828.5	6698.6	7651.7	7760.3	7759.2	7520.0	7255.1	6014.2	3896.2
70°	5770.2	5830.7	6326.2	7356.3	8257.4	8367.7	8310.9	7745.9	6831.3	4863.2	2757.5
72.5°	5721.0	5825.8	6602.8	7771.0	8692.5	8776.5	8407.8	7190.9	5399.4	2826.5	1174.1
75°	4413.7	4535.1	6054.3	7360.0	8236.0	8160.6	7224.1	5595.7	2950.6	788.8	264.3
77.5°	2331.5	2396.3	3999.5	5607.0	6422.0	6264.1	5089.0	3104.2	899.5	195.3	118.8
80°	1221.1	1236.1	1742.9	3181.3	3963.6	3964.7	3015.9	1363.5	370.8	100.1	79.7
82.5°	653.9	666.8	920.9	1470.0	2076.8	1882.6	1154.8	750.2	215.7	56.7	76.5
85°	157.3	160.0	522.3	671.6	816.6	583.3	343.0	629.8	58.3	33.2	62.1
87.5°	60.5	61.5	193.7	290.6	208.2	134.9	160.5	234.9	7.5	12.8	9.6
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°	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5	2369.5
2.5°	2346.0	2332.1	2297.8	2254.5	2215.9	2188.1	2146.4	2119.1	2100.9	2100.3	2093.4
5°	2286.6	2258.2	2184.4	2096.6	2016.9	1945.2	1860.6	1793.7	1744.0	1735.9	1718.8
7.5°	2222.9	2176.3	2062.9	1925.9	1792.1	1656.2	1498.3	1400.4	1316.4	1276.3	1272.0
10°	2183.8	2118.5	1957.5	1759.5	1549.7	1328.7	1122.1	979.3	876.0	846.6	824.6
12.5°	2175.8	2089.6	1876.1	1603.2	1303.6	1011.4	782.9	630.9	548.5	522.3	515.3
15°	2183.8	2076.3	1807.6	1448.6	1054.2	717.6	525.5	437.2	406.2	398.7	398.1
17.5°	2188.6	2060.2	1730.0	1276.8	812.3	512.6	402.4	376.7	371.9	371.4	372.4
20°	2188.1	2035.6	1637.5	1085.2	604.1	402.9	363.9	358.5	357.5	358.0	357.5
22.5°	2184.4	2006.7	1535.8	887.8	456.5	360.1	347.3	344.1	343.5	343.5	343.5
25°	2191.3	1983.7	1424.0	698.9	376.2	340.3	332.3	329.6	329.1	329.1	328.0
27.5°	2216.5	1970.8	1301.4	537.8	339.8	322.7	316.3	315.7	314.1	313.6	314.7
30°	2257.1	1970.8	1167.1	418.5	317.9	304.5	299.7	298.6	298.1	297.5	298.1
32.5°	2328.8	1985.8	1020.5	347.8	297.0	284.1	280.9	282.5	280.9	280.9	280.9
35°	2458.3	2030.8	866.9	303.4	275.1	264.3	261.1	263.3	262.2	262.2	261.7
37.5°	2647.2	2114.3	712.2	276.7	255.8	244.5	240.3	243.5	242.4	242.4	241.9
40°	2877.3	2235.7	565.1	256.3	237.1	225.3	221.5	223.1	220.5	220.5	221.5
42.5°	3161.5	2389.8	436.7	236.5	218.3	207.1	205.0	203.3	198.5	195.9	196.4
45°	3477.2	2550.4	340.3	217.3	200.7	191.6	188.4	184.1	176.1	170.7	171.2
47.5°	3759.2	2674.0	276.7	198.5	184.6	177.7	172.8	164.8	153.0	146.6	147.2
50°	3907.4	2692.7	235.5	179.8	169.6	162.7	155.7	143.4	129.5	122.5	122.0
52.5°	3945.4	2605.0	205.0	162.7	154.6	146.6	137.5	120.9	105.4	97.9	96.9
55°	3959.3	2471.2	177.7	146.6	138.6	129.5	117.7	99.0	84.5	77.1	76.5
57.5°	3913.3	2271.6	156.3	132.2	122.5	111.3	96.9	79.2	65.3	59.4	59.4
60°	3811.1	2001.3	139.7	116.7	106.0	93.1	78.1	61.5	48.7	43.9	43.9
62.5°	3607.2	1651.4	124.1	100.6	90.4	77.1	63.1	46.6	34.2	31.6	32.1
65°	3222.5	1252.7	108.6	86.2	77.1	63.7	49.2	33.2	23.0	23.0	24.1
67.5°	2628.0	870.1	92.6	73.3	66.4	51.9	37.5	23.0	16.1	18.2	20.3
70°	1739.7	488.0	79.2	60.5	56.7	41.2	27.8	15.5	12.8	17.1	20.9
72.5°	656.6	190.0	66.4	48.7	49.2	31.6	19.8	11.8	11.8	18.7	24.6
75°	183.0	93.1	47.6	35.9	38.5	23.0	14.4	10.2	11.2	21.4	28.9
77.5°	107.6	68.5	31.0	20.9	26.2	16.1	9.6	8.0	9.6	18.2	27.8
80°	86.7	36.4	18.2	10.7	14.4	9.1	6.4	4.8	2.7	7.0	14.4
82.5°	86.7	21.9	8.6	7.5	7.5	4.8	3.2	2.1	0.5	0.0	3.7
85°	58.3	9.1	5.4	4.8	3.7	1.6	1.1	0.5	0.0	0.0	0.0
87.5°	9.6	3.7	2.1	1.1	0.5	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)