

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: P322558

Luminaire Tested: **GAN-SA4B-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16369 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

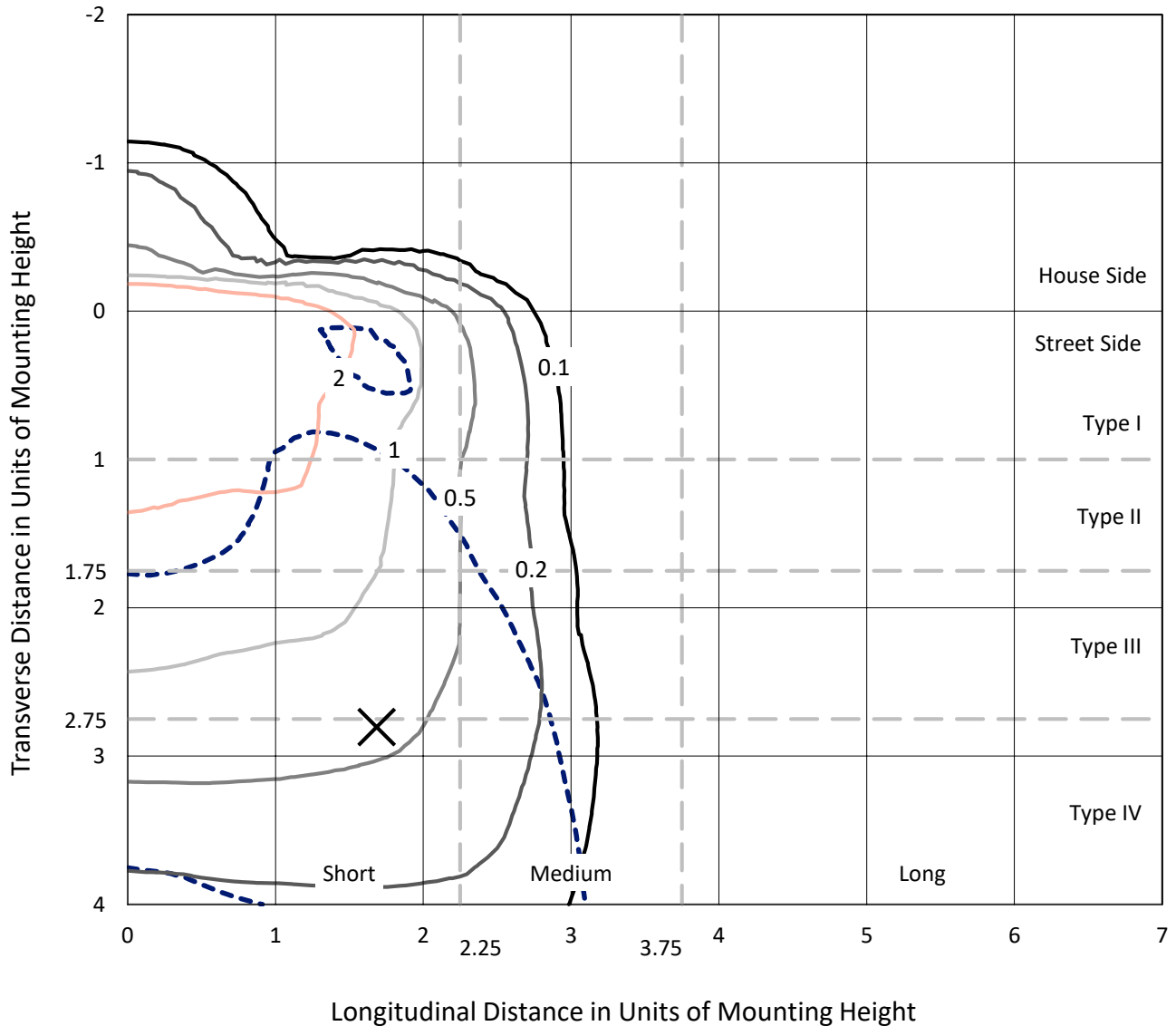
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

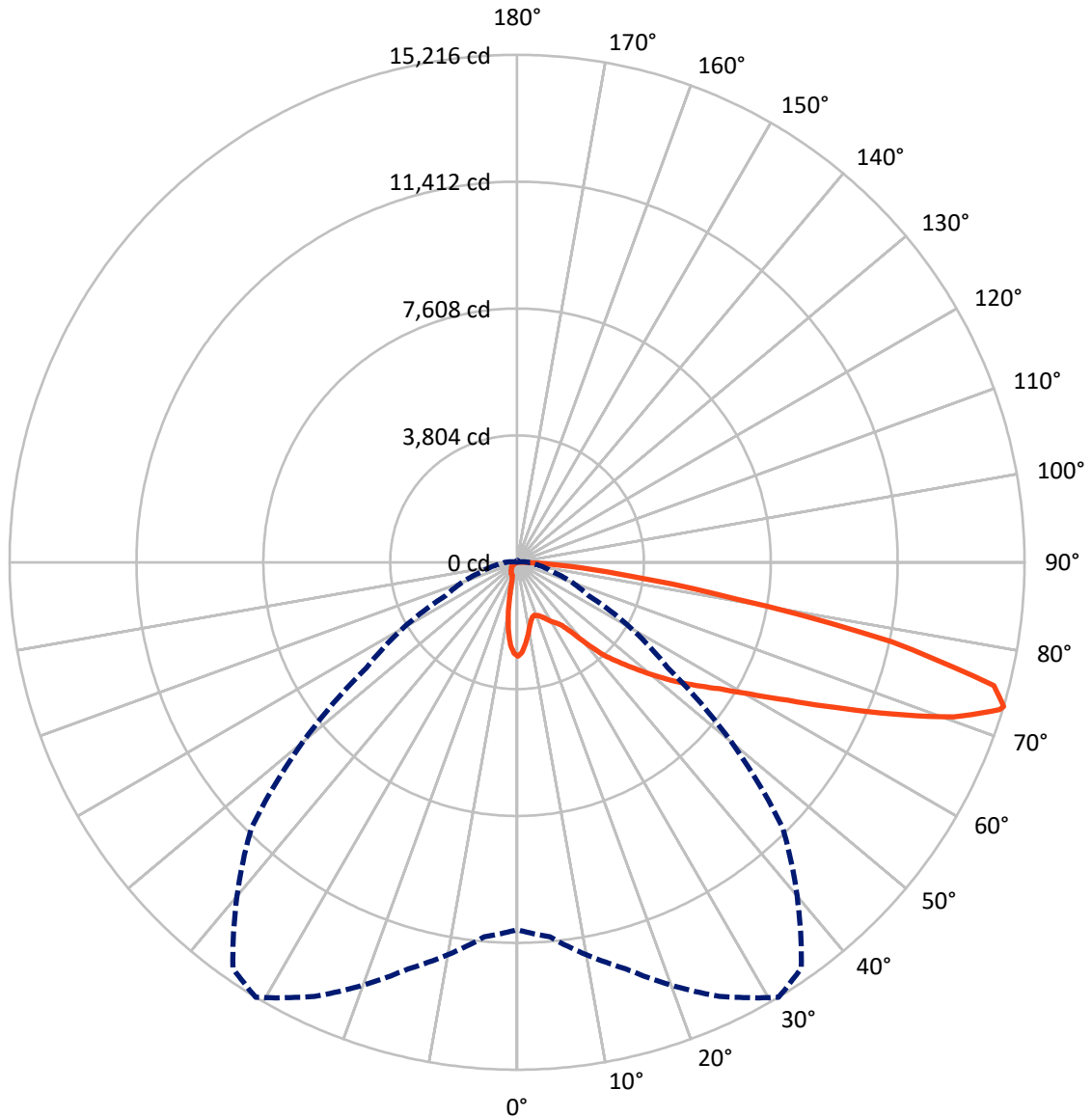
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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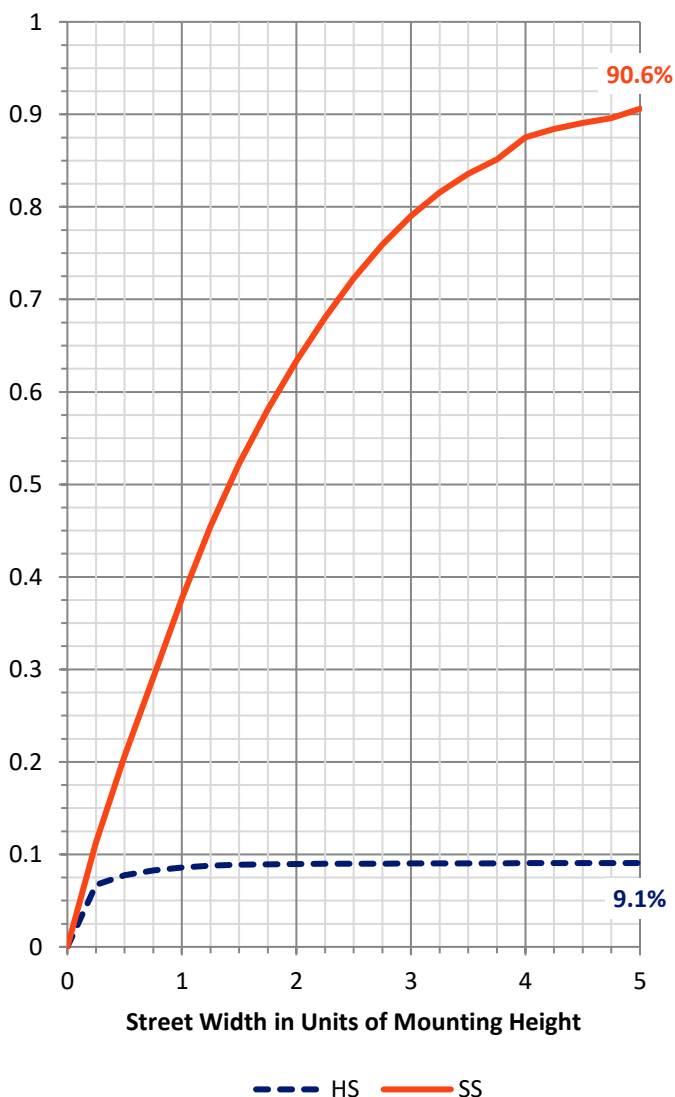
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.1	0.0	1492.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	14876.9	0.0	14876.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	16369.0	0.0	16369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	1.4
10°-20°	507.0	3.1
20°-30°	759.7	4.6
30°-40°	1208.6	7.4
40°-50°	2158.3	13.2
50°-60°	3349.0	20.5
60°-70°	4452.1	27.2
70°-80°	3348.9	20.5
80°-90°	351.9	2.1
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°	16369.0	100.0
0°-180°	16369.0	100.0

Coefficient of Utilization

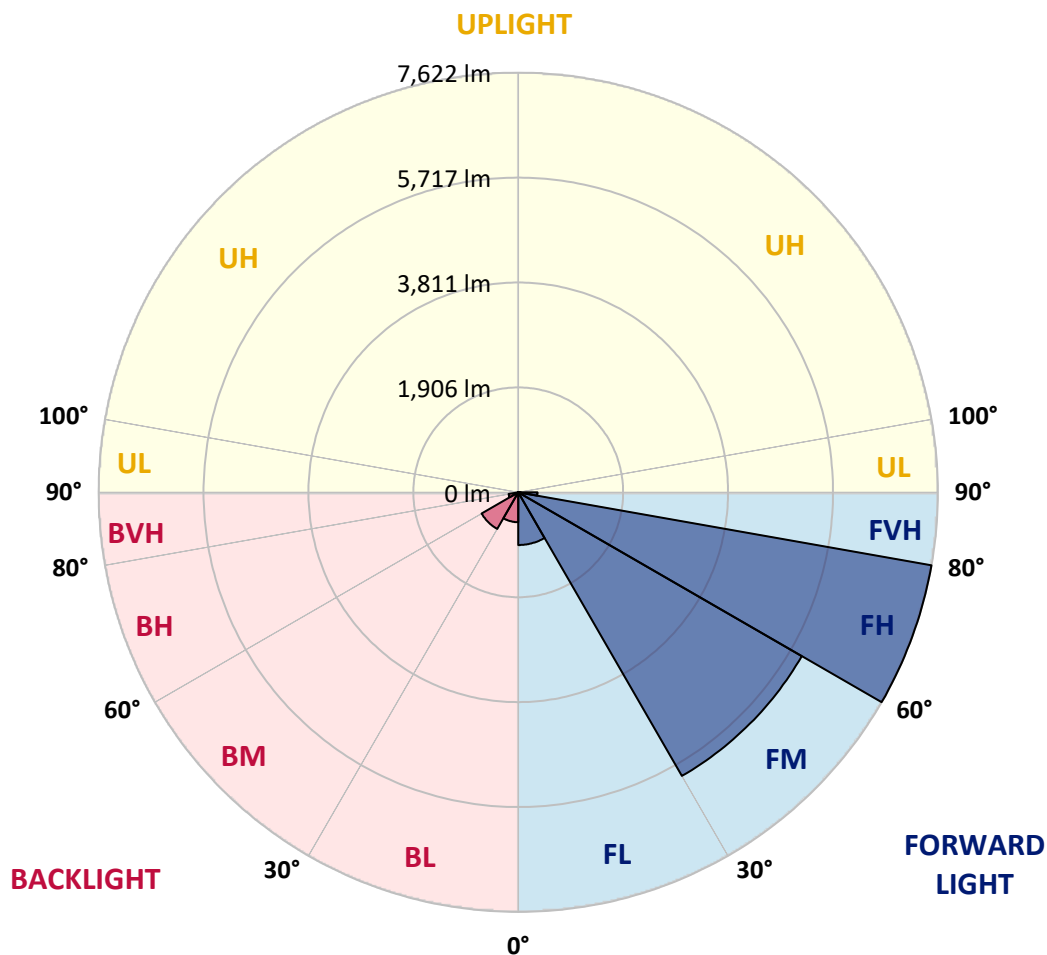


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.6	5.9			
FM (30°-60°)	5947.9	36.3			
FH (60°-80°)	7622.4	46.6			G4/12000
FVH (80°-90°)	348.9	2.1			G3/500
BL (0°-30°)	542.6	3.3	B2/1000		
BM (30°-60°)	768.0	4.7	B1/1000		
BH (60°-80°)	178.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3
2.5°	2668.9	2680.1	2692.2	2694.6	2714.6	2715.4	2744.2	2765.9	2787.5	2808.3	2815.5
5°	2395.0	2413.4	2435.0	2456.7	2499.1	2515.9	2586.4	2658.5	2727.4	2793.1	2825.1
7.5°	2102.6	2123.5	2153.9	2207.6	2254.8	2287.7	2399.0	2527.2	2655.3	2776.3	2846.0
10°	1835.9	1855.1	1887.2	1944.0	2016.9	2061.8	2211.6	2389.4	2577.6	2761.1	2877.2
12.5°	1666.1	1676.5	1694.1	1755.0	1820.7	1871.1	2047.4	2267.6	2513.5	2760.2	2927.7
15°	1634.8	1638.0	1623.6	1650.9	1702.1	1751.0	1929.6	2169.1	2464.7	2773.1	2993.3
17.5°	1684.5	1682.9	1634.8	1631.6	1672.5	1712.5	1871.9	2101.0	2430.2	2802.7	3078.2
20°	1759.8	1754.2	1670.9	1655.7	1698.9	1736.6	1867.9	2075.4	2417.4	2852.4	3181.6
22.5°	1859.9	1850.3	1719.7	1703.7	1750.2	1789.4	1917.6	2100.2	2428.6	2918.8	3301.7
25°	1984.1	1969.7	1803.9	1786.2	1833.5	1872.7	2006.5	2171.5	2462.3	2999.7	3453.9
27.5°	2124.3	2103.4	1938.4	1892.8	1946.4	1987.3	2125.1	2280.5	2515.1	3085.5	3640.6
30°	2256.4	2229.2	2080.2	2004.9	2070.6	2116.2	2253.2	2410.2	2600.0	3217.6	3896.1
32.5°	2389.4	2358.9	2206.8	2117.0	2176.3	2226.0	2385.4	2588.8	2759.4	3419.5	4235.7
35°	2695.4	2663.3	2476.7	2328.5	2327.7	2355.7	2570.4	2833.1	2970.1	3700.6	4641.0
37.5°	3210.4	3192.0	3014.2	2733.0	2657.7	2626.5	2822.7	3124.7	3272.9	4087.5	5098.4
40°	3774.3	3758.3	3558.8	3304.1	3189.6	3112.7	3184.8	3530.8	3700.6	4560.1	5565.4
42.5°	4411.1	4335.0	3979.4	3903.3	3800.8	3742.3	3677.4	4031.4	4226.1	5074.3	6028.3
45°	4989.4	4861.3	4399.9	4284.6	4261.3	4275.7	4311.8	4704.3	4817.2	5685.5	6489.7
47.5°	5333.9	5232.9	4878.9	4768.4	4762.0	4857.3	5129.6	5464.4	5406.0	6218.2	6895.8
50°	5661.5	5570.2	5276.2	5303.4	5333.1	5462.8	6058.0	6246.2	5943.4	6701.2	7268.3
52.5°	5926.6	5787.2	5633.4	5786.4	5932.2	6141.3	7016.0	6947.9	6324.7	7085.7	7587.1
55°	6079.6	6016.3	6090.8	6244.6	6518.5	6858.2	7920.3	7531.8	6603.5	7436.5	7799.3
57.5°	6640.3	6516.1	6664.3	6797.3	7154.5	7629.5	8694.9	7966.8	6804.5	7653.6	7848.2
60°	7318.7	7218.6	7305.9	7527.0	8009.2	8567.5	9419.0	8321.6	6909.4	7792.9	7721.7
62.5°	8398.5	8266.3	8211.9	8459.4	9098.6	9708.1	9968.5	8567.5	6886.2	7731.3	7287.5
65°	9845.1	9708.1	9464.6	9688.9	10501.9	10932.1	10582.8	8619.6	6726.0	7232.2	6190.1
67.5°	11327.0	11227.6	11019.4	11397.4	12131.2	12269.7	11232.4	8493.0	6210.2	5864.1	4373.5
70°	12305.8	12263.3	12398.7	13234.9	13889.4	13849.3	11828.4	7813.0	4840.4	3606.1	2163.5
72.5°	11600.1	11803.6	12803.2	14319.5	15118.9	14792.1	11522.4	5999.5	2766.7	1387.3	625.6
73°	11015.4	11275.7	12621.4	14360.3	15215.8	14857.8	11265.3	5506.9	2358.1	1095.0	474.2
75°	7663.2	7982.8	10449.1	13374.3	14762.5	14156.1	9390.1	3370.6	1092.6	485.4	191.4
77.5°	3720.7	3956.9	5753.6	9663.3	11480.7	11060.2	5845.7	1256.0	493.4	303.6	88.1
80°	1388.9	1544.3	2497.5	4918.1	6634.7	6808.5	2571.2	475.0	328.4	244.3	44.9
82.5°	363.7	405.3	921.2	2193.1	3400.2	3558.8	810.6	239.5	240.3	201.1	27.2
85°	116.1	133.0	287.6	984.4	1602.0	1406.6	211.5	116.1	174.6	149.8	15.2
87.5°	14.4	18.4	91.3	231.5	353.2	196.2	32.8	34.4	74.5	83.3	8.8
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°	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3
2.5°	2822.7	2818.7	2819.5	2798.7	2785.1	2757.8	2729.8	2717.0	2703.4	2697.8	2703.4
5°	2837.1	2829.9	2809.1	2745.0	2676.9	2588.8	2506.3	2443.9	2365.4	2343.7	2366.2
7.5°	2859.6	2845.2	2784.3	2653.7	2502.3	2334.1	2145.1	2007.3	1894.4	1821.5	1847.9
10°	2892.4	2865.2	2742.6	2520.8	2250.0	1952.0	1683.7	1474.6	1326.5	1265.6	1263.2
12.5°	2947.7	2896.4	2691.4	2347.7	1941.6	1544.3	1192.7	966.0	845.9	768.2	766.6
15°	3008.6	2933.3	2626.5	2140.3	1582.8	1106.2	768.2	595.9	518.2	493.4	490.2
17.5°	3083.1	2975.7	2542.4	1884.8	1207.1	732.9	501.4	451.8	448.6	446.2	446.2
20°	3176.8	3026.2	2434.2	1592.4	856.3	489.4	426.1	429.3	430.9	427.7	428.5
22.5°	3285.7	3077.4	2305.3	1278.4	579.1	409.3	407.7	411.7	413.3	411.7	412.5
25°	3412.3	3136.7	2148.3	949.2	418.1	388.5	392.5	398.1	402.1	402.1	402.1
27.5°	3569.3	3208.8	1959.2	662.4	361.3	366.9	378.1	388.5	394.1	395.7	395.7
30°	3773.5	3298.5	1732.6	454.2	328.4	338.0	358.8	378.9	389.3	390.9	391.7
32.5°	4031.4	3399.4	1469.8	335.6	300.4	307.6	330.0	363.7	383.7	386.9	386.9
35°	4327.0	3516.4	1187.1	292.4	280.4	282.8	300.4	338.8	374.1	382.9	383.7
37.5°	4650.6	3631.7	902.7	273.1	263.5	263.5	276.3	309.2	350.8	378.1	381.3
40°	4952.6	3701.4	632.8	257.9	248.3	248.3	259.5	283.6	322.8	363.7	372.5
42.5°	5231.3	3725.5	440.6	243.5	233.9	236.3	245.9	265.1	294.8	335.6	343.6
45°	5518.1	3721.5	321.2	226.7	219.5	226.7	233.9	248.3	269.9	293.2	294.8
47.5°	5734.4	3687.8	254.7	210.7	205.9	215.5	221.9	231.5	243.5	241.9	241.9
50°	5937.0	3606.1	205.1	189.0	192.2	203.5	206.7	209.9	210.7	195.4	193.8
52.5°	6090.8	3478.7	164.2	165.8	178.6	189.8	186.6	181.8	173.8	155.4	152.2
55°	6142.1	3233.6	129.0	137.0	158.6	173.0	161.0	150.6	135.4	120.2	116.9
57.5°	6049.2	2917.2	104.9	106.5	133.8	145.8	132.2	120.2	103.3	90.5	88.1
60°	5852.1	2565.6	86.5	80.1	103.3	113.7	104.9	92.9	77.7	68.1	67.3
62.5°	5461.2	2190.7	71.3	62.5	78.5	87.3	81.7	72.9	60.1	53.7	52.9
65°	4639.4	1752.6	57.7	50.5	60.9	68.1	63.3	56.9	47.3	42.5	41.7
67.5°	3238.4	1184.7	47.3	41.7	48.1	53.7	49.7	46.5	37.6	36.8	37.6
70°	1562.0	571.1	39.2	33.6	37.6	41.7	40.1	37.6	36.0	41.7	48.1
72.5°	447.8	191.4	31.2	28.0	30.4	32.8	34.4	33.6	39.2	50.5	58.5
73°	344.4	154.6	29.6	26.4	28.8	32.0	33.6	32.8	40.1	51.3	58.5
75°	147.4	74.5	22.4	21.6	24.0	28.0	29.6	29.6	40.1	52.1	56.1
77.5°	66.5	40.1	14.4	16.8	20.8	22.4	24.8	24.8	32.0	40.1	40.1
80°	37.6	21.6	11.2	12.8	15.2	15.2	15.2	13.6	14.4	16.0	17.6
82.5°	24.0	14.4	8.8	10.4	9.6	8.0	6.4	6.4	5.6	6.4	8.0
85°	13.6	8.0	8.0	6.4	4.0	3.2	4.0	3.2	0.8	0.0	0.8
87.5°	8.0	4.8	2.4	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)