

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: P322519

Luminaire Tested: **GAN-SA5B-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322519
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-SA5B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 18472 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

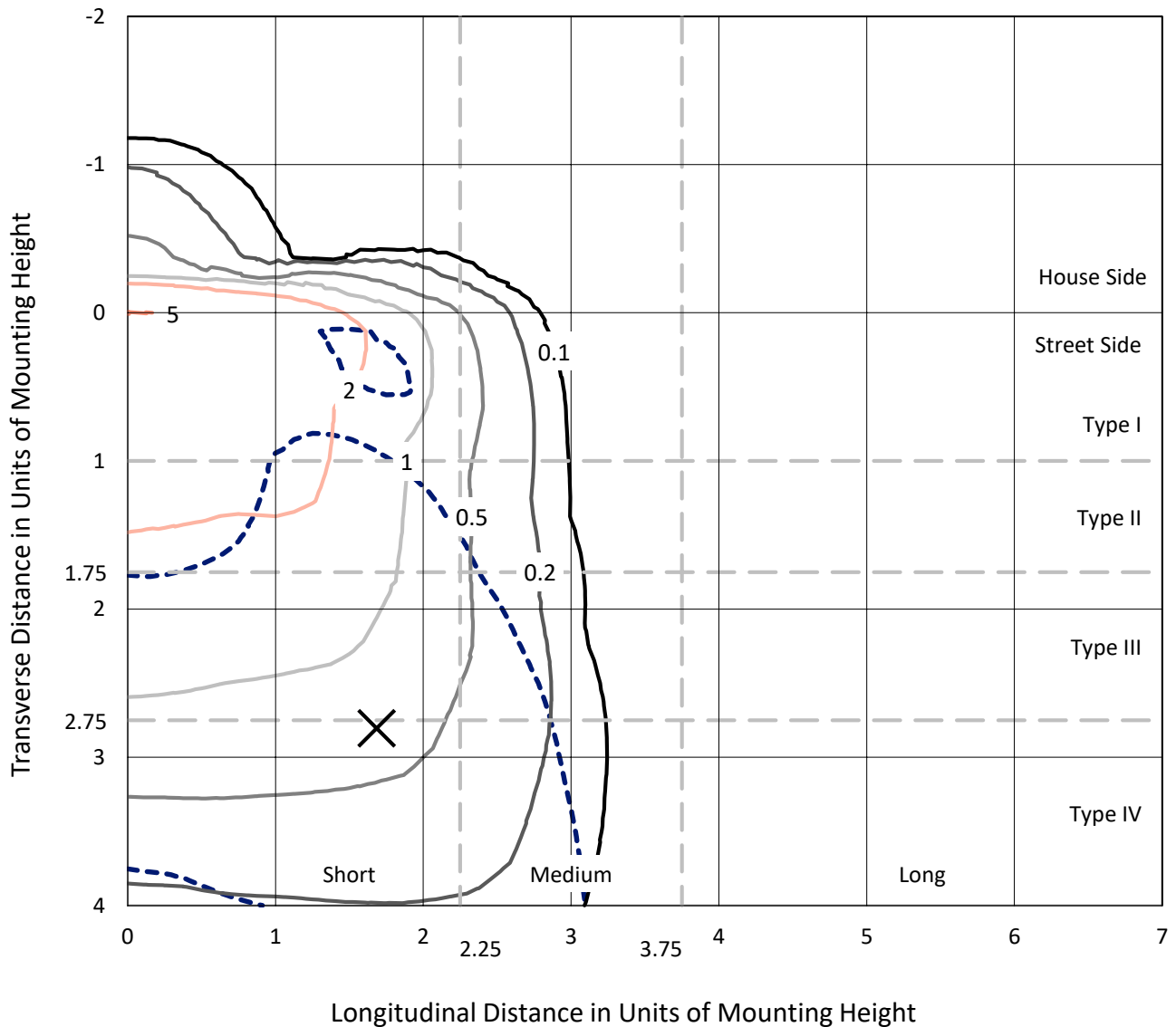
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

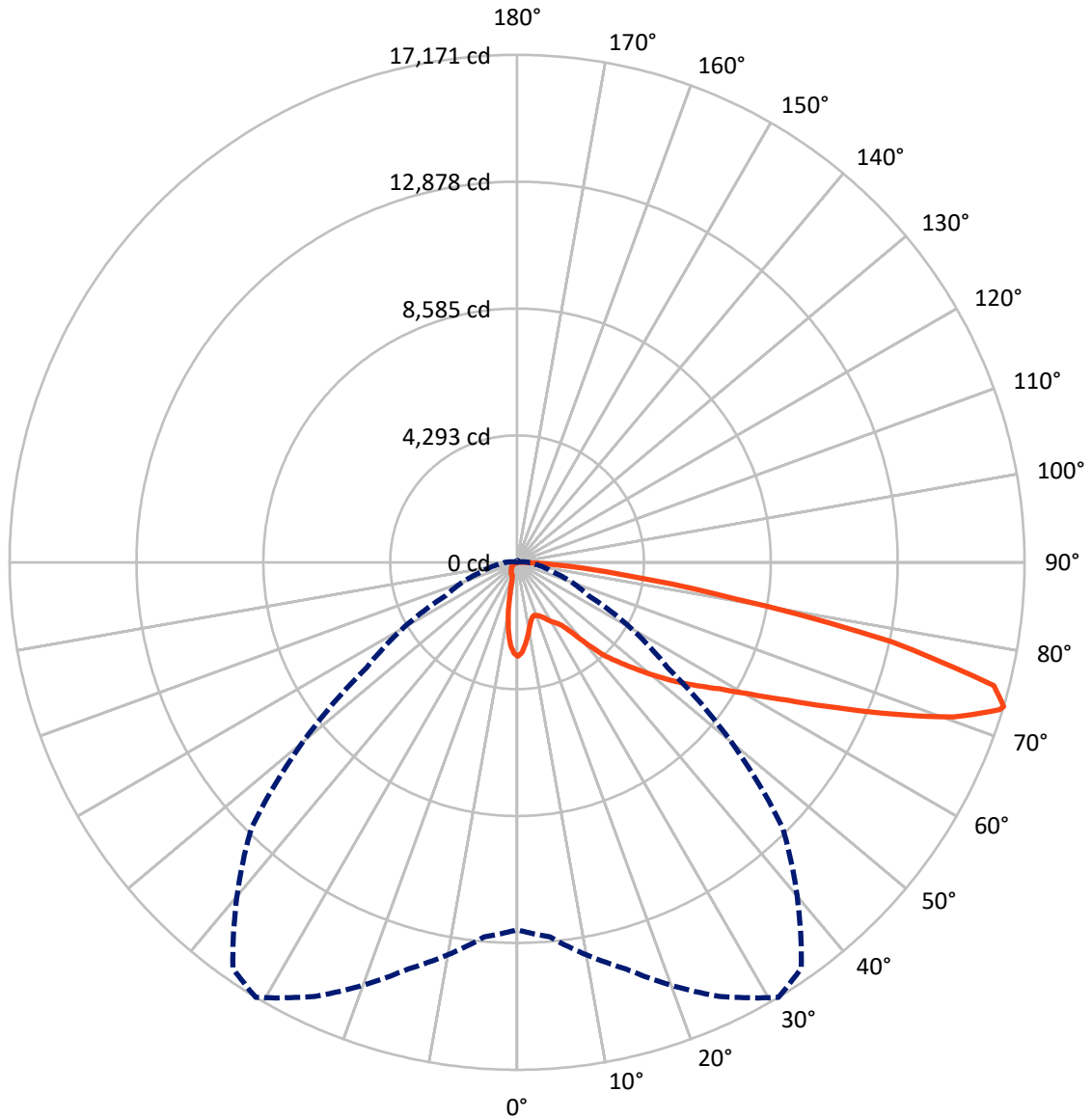
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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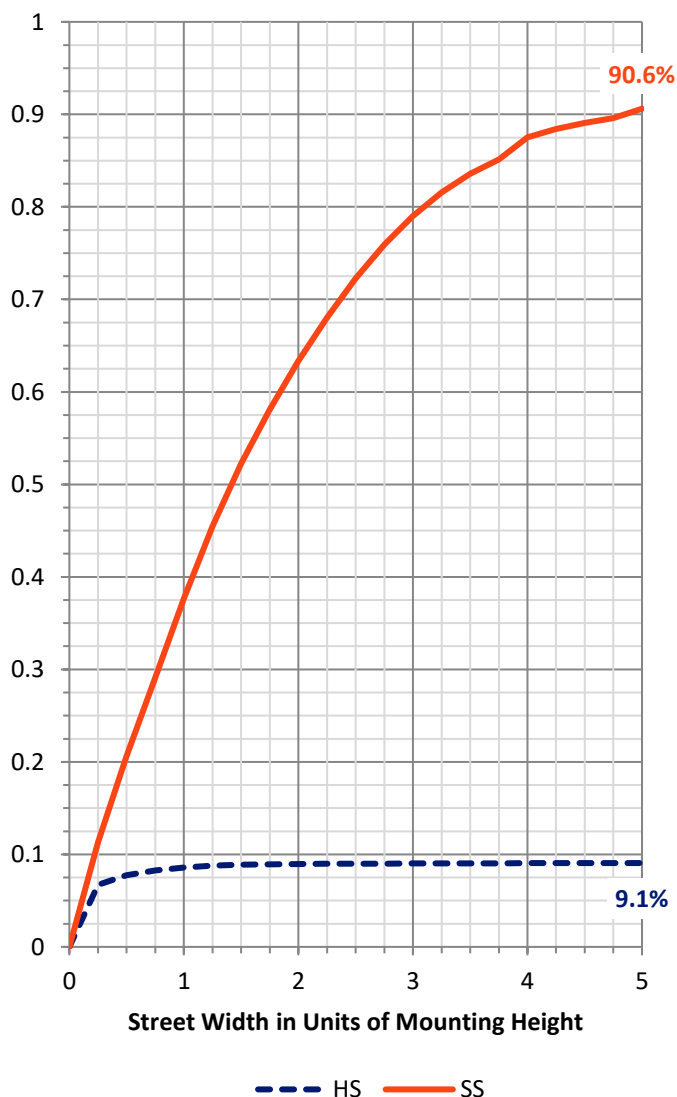
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.8	0.0	1683.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16788.2	0.0	16788.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	18472.0	0.0	18472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	1.4
10°-20°	572.2	3.1
20°-30°	857.3	4.6
30°-40°	1363.9	7.4
40°-50°	2435.6	13.2
50°-60°	3779.3	20.5
60°-70°	5024.1	27.2
70°-80°	3779.1	20.5
80°-90°	397.1	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°	18472.0	100.0
0°-180°	18472.0	100.0

Coefficient of Utilization

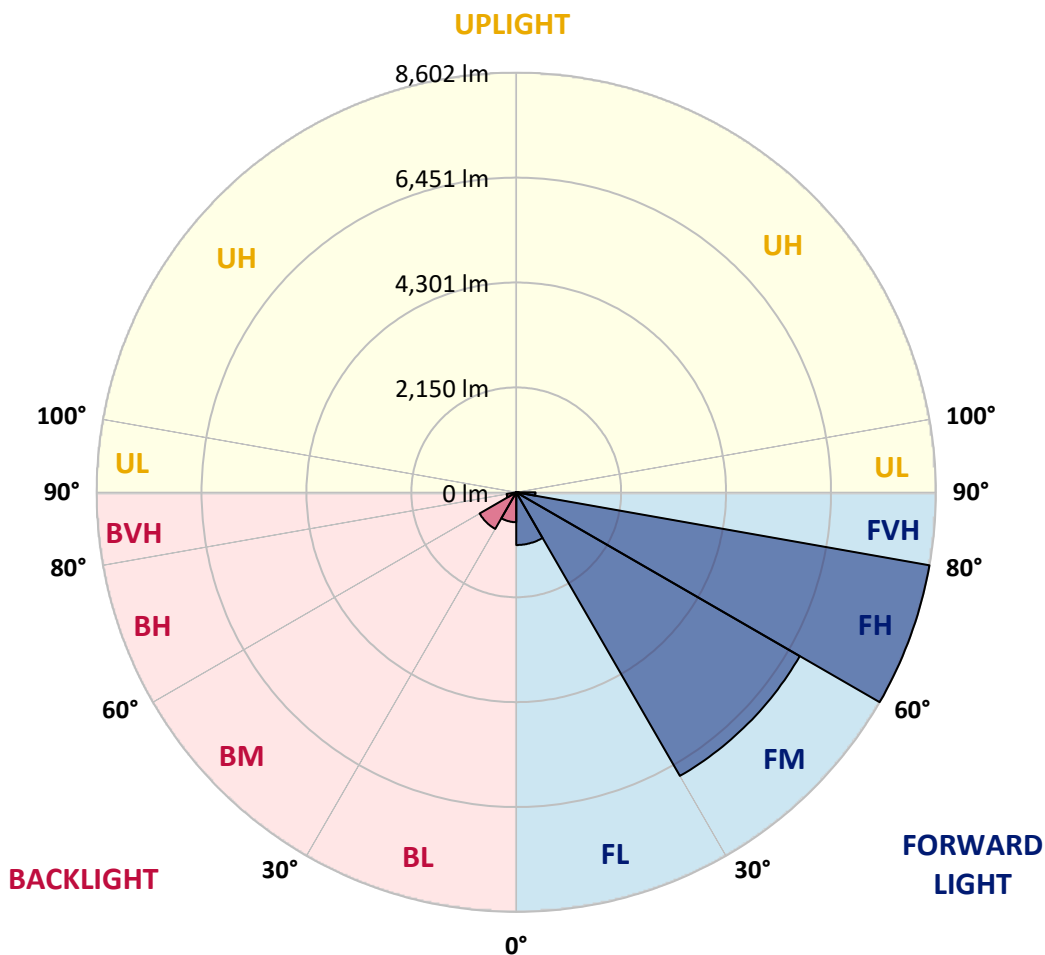


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1080.6	5.9			
FM (30°-60°)	6712.1	36.3			
FH (60°-80°)	8601.7	46.6			G4/12000
FVH (80°-90°)	393.8	2.1			G3/500
BL (0°-30°)	612.3	3.3	B2/1000		
BM (30°-60°)	866.7	4.7	B1/1000		
BH (60°-80°)	201.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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°	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1
2.5°	3011.8	3024.5	3038.0	3040.8	3063.3	3064.3	3096.8	3121.2	3145.6	3169.1	3177.2
5°	2702.7	2723.5	2747.9	2772.3	2820.2	2839.2	2918.7	3000.1	3077.8	3151.9	3188.1
7.5°	2372.8	2396.3	2430.6	2491.2	2544.5	2581.6	2707.2	2851.8	2996.5	3132.9	3211.6
10°	2071.8	2093.5	2129.6	2193.8	2276.0	2326.7	2495.7	2696.4	2908.8	3115.8	3246.8
12.5°	1880.1	1891.9	1911.8	1980.5	2054.6	2111.5	2310.4	2559.0	2836.5	3114.9	3303.8
15°	1844.9	1848.5	1832.2	1863.0	1920.8	1975.9	2177.5	2447.8	2781.3	3129.3	3377.9
17.5°	1900.9	1899.1	1844.9	1841.3	1887.4	1932.6	2112.4	2371.0	2742.5	3162.8	3473.7
20°	1985.9	1979.6	1885.6	1868.4	1917.2	1959.7	2107.9	2342.0	2728.0	3218.8	3590.3
22.5°	2098.9	2088.0	1940.7	1922.6	1975.0	2019.3	2164.0	2370.1	2740.7	3293.8	3725.9
25°	2239.0	2222.7	2035.6	2015.7	2069.0	2113.3	2264.3	2450.5	2778.6	3385.1	3897.7
27.5°	2397.2	2373.7	2187.5	2135.9	2196.5	2242.6	2398.1	2573.4	2838.3	3481.9	4108.3
30°	2546.3	2515.6	2347.5	2262.5	2336.6	2388.1	2542.7	2719.9	2934.1	3631.0	4396.6
32.5°	2696.4	2662.0	2490.3	2389.0	2455.9	2512.0	2691.8	2921.4	3114.0	3858.8	4779.9
35°	3041.7	3005.5	2794.9	2627.7	2626.8	2658.4	2900.6	3197.1	3351.7	4176.1	5237.3
37.5°	3622.9	3602.1	3401.4	3084.1	2999.2	2963.9	3185.4	3526.2	3693.4	4612.6	5753.4
40°	4259.2	4241.1	4016.1	3728.6	3599.4	3512.6	3593.9	3984.4	4176.1	5146.0	6280.4
42.5°	4977.8	4892.0	4490.6	4404.8	4289.1	4223.1	4149.8	4549.4	4769.0	5726.3	6802.8
45°	5630.5	5485.8	4965.2	4835.0	4808.8	4825.1	4865.7	5308.7	5436.1	6415.9	7323.5
47.5°	6019.1	5905.2	5505.7	5381.0	5373.7	5481.3	5788.6	6166.5	6100.5	7017.0	7781.8
50°	6388.8	6285.8	5954.1	5984.8	6018.2	6164.7	6836.3	7048.7	6707.0	7562.1	8202.1
52.5°	6688.0	6530.7	6357.2	6529.8	6694.4	6930.3	7917.3	7840.5	7137.3	7996.0	8561.8
55°	6860.7	6789.3	6873.3	7046.9	7356.0	7739.3	8937.9	8499.5	7451.8	8391.9	8801.4
57.5°	7493.4	7353.3	7520.5	7670.6	8073.7	8609.7	9811.9	8990.3	7678.7	8636.9	8856.5
60°	8259.0	8146.0	8244.6	8494.0	9038.2	9668.2	10629.1	9390.7	7797.1	8794.1	8713.7
62.5°	9477.5	9328.3	9266.9	9546.2	10267.5	10955.4	11249.2	9668.2	7770.9	8724.5	8223.8
65°	11110.0	10955.4	10680.6	10933.7	11851.2	12336.6	11942.5	9727.0	7590.1	8161.4	6985.4
67.5°	12782.2	12670.1	12435.1	12861.7	13689.7	13846.1	12675.5	9584.2	7008.0	6617.5	4935.3
70°	13886.8	13838.9	13991.6	14935.3	15673.8	15628.6	13348.0	8816.7	5462.3	4069.4	2441.5
72.5°	13090.4	13320.0	14448.1	16159.2	17061.3	16692.5	13002.7	6770.3	3122.1	1565.6	706.0
73°	12430.6	12724.3	14242.9	16205.3	17170.7	16766.6	12712.6	6214.4	2661.1	1235.6	535.1
75°	8647.7	9008.4	11791.5	15092.6	16659.1	15974.8	10596.5	3803.7	1232.9	547.8	216.0
77.5°	4198.7	4465.3	6492.8	10904.8	12955.7	12481.2	6596.7	1417.3	556.8	342.6	99.4
80°	1567.4	1742.7	2818.4	5550.0	7487.1	7683.2	2901.5	536.0	370.6	275.7	50.6
82.5°	410.4	457.4	1039.5	2474.9	3837.1	4016.1	914.8	270.3	271.2	226.9	30.7
85°	131.1	150.0	324.5	1110.9	1807.8	1587.3	238.6	131.1	197.1	169.0	17.2
87.5°	16.3	20.8	103.0	261.2	398.6	221.5	37.1	38.9	84.1	94.0	9.9
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°	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1
2.5°	3185.4	3180.9	3181.8	3158.3	3142.9	3112.2	3080.5	3066.1	3050.7	3044.4	3050.7
5°	3201.6	3193.5	3170.0	3097.7	3020.9	2921.4	2828.3	2757.8	2669.2	2644.8	2670.1
7.5°	3227.0	3210.7	3142.0	2994.7	2823.8	2634.0	2420.7	2265.2	2137.7	2055.5	2085.3
10°	3264.0	3233.3	3095.0	2844.6	2539.1	2202.8	1900.0	1664.1	1496.9	1428.2	1425.5
12.5°	3326.4	3268.5	3037.1	2649.4	2191.1	1742.7	1345.9	1090.1	954.5	866.8	865.0
15°	3395.1	3310.1	2963.9	2415.2	1786.1	1248.3	866.8	672.5	584.8	556.8	553.2
17.5°	3479.1	3358.0	2869.0	2126.9	1362.2	827.1	565.8	509.8	506.2	503.5	503.5
20°	3584.9	3415.0	2747.0	1797.0	966.3	552.3	480.9	484.5	486.3	482.7	483.6
22.5°	3707.8	3472.8	2601.5	1442.6	653.5	461.9	460.1	464.6	466.4	464.6	465.5
25°	3850.7	3539.7	2424.3	1071.1	471.8	438.4	442.9	449.2	453.8	453.8	453.8
27.5°	4027.8	3621.1	2211.0	747.5	407.7	414.0	426.6	438.4	444.7	446.5	446.5
30°	4258.3	3722.3	1955.2	512.5	370.6	381.4	405.0	427.5	439.3	441.1	442.0
32.5°	4549.4	3836.2	1658.7	378.7	339.0	347.1	372.4	410.4	433.0	436.6	436.6
35°	4882.9	3968.2	1339.6	329.9	316.4	319.1	339.0	382.4	422.1	432.1	433.0
37.5°	5248.1	4098.3	1018.7	308.2	297.4	297.4	311.8	348.9	395.9	426.6	430.3
40°	5588.9	4177.0	714.1	291.1	280.2	280.2	292.9	320.0	364.3	410.4	420.3
42.5°	5903.4	4204.1	497.2	274.8	263.9	266.7	277.5	299.2	332.6	378.7	387.8
45°	6227.0	4199.6	362.5	255.8	247.7	255.8	263.9	280.2	304.6	330.8	332.6
47.5°	6471.1	4161.6	287.4	237.7	232.3	243.2	250.4	261.2	274.8	273.0	273.0
50°	6699.8	4069.4	231.4	213.3	216.9	229.6	233.2	236.8	237.7	220.6	218.7
52.5°	6873.3	3925.7	185.3	187.1	201.6	214.2	210.6	205.2	196.1	175.4	171.7
55°	6931.2	3649.1	145.5	154.6	179.0	195.2	181.7	169.9	152.8	135.6	132.0
57.5°	6826.3	3292.0	118.4	120.2	151.0	164.5	149.1	135.6	116.6	102.1	99.4
60°	6604.0	2895.2	97.6	90.4	116.6	128.4	118.4	104.9	87.7	76.8	75.9
62.5°	6162.9	2472.2	80.4	70.5	88.6	98.5	92.2	82.3	67.8	60.6	59.7
65°	5235.4	1977.8	65.1	56.9	68.7	76.8	71.4	64.2	53.3	47.9	47.0
67.5°	3654.5	1336.9	53.3	47.0	54.2	60.6	56.0	52.4	42.5	41.6	42.5
70°	1762.6	644.5	44.3	38.0	42.5	47.0	45.2	42.5	40.7	47.0	54.2
72.5°	505.3	216.0	35.3	31.6	34.3	37.1	38.9	38.0	44.3	56.9	66.0
73°	388.7	174.5	33.4	29.8	32.5	36.2	38.0	37.1	45.2	57.9	66.0
75°	166.3	84.1	25.3	24.4	27.1	31.6	33.4	33.4	45.2	58.8	63.3
77.5°	75.0	45.2	16.3	19.0	23.5	25.3	28.0	28.0	36.2	45.2	45.2
80°	42.5	24.4	12.7	14.5	17.2	17.2	17.2	15.4	16.3	18.1	19.9
82.5°	27.1	16.3	9.9	11.8	10.8	9.0	7.2	7.2	6.3	7.2	9.0
85°	15.4	9.0	9.0	7.2	4.5	3.6	4.5	3.6	0.9	0.0	0.9
87.5°	9.0	5.4	2.7	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)