

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: P317741

Luminaire Tested: **GAN-SA7D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51103 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

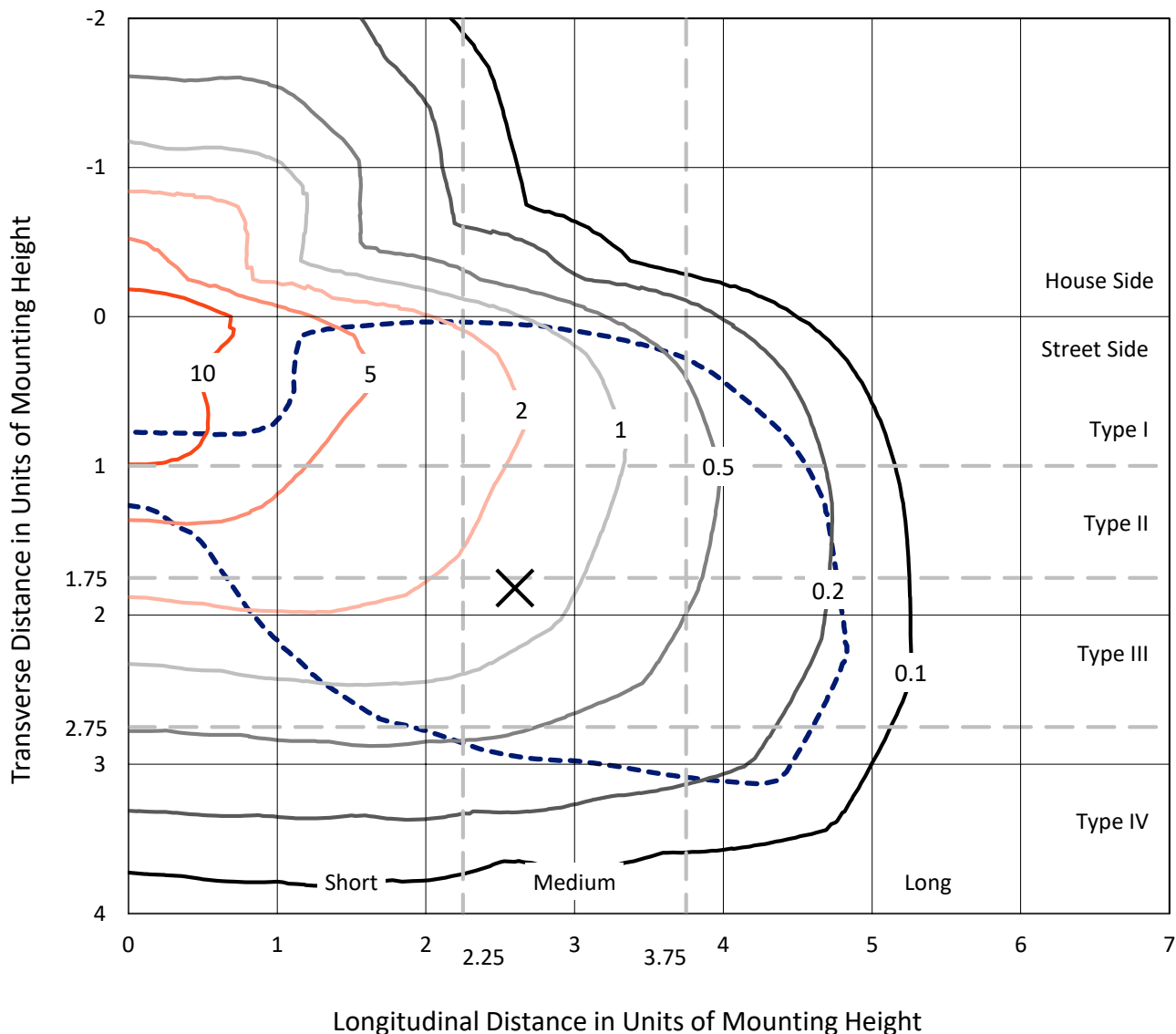
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

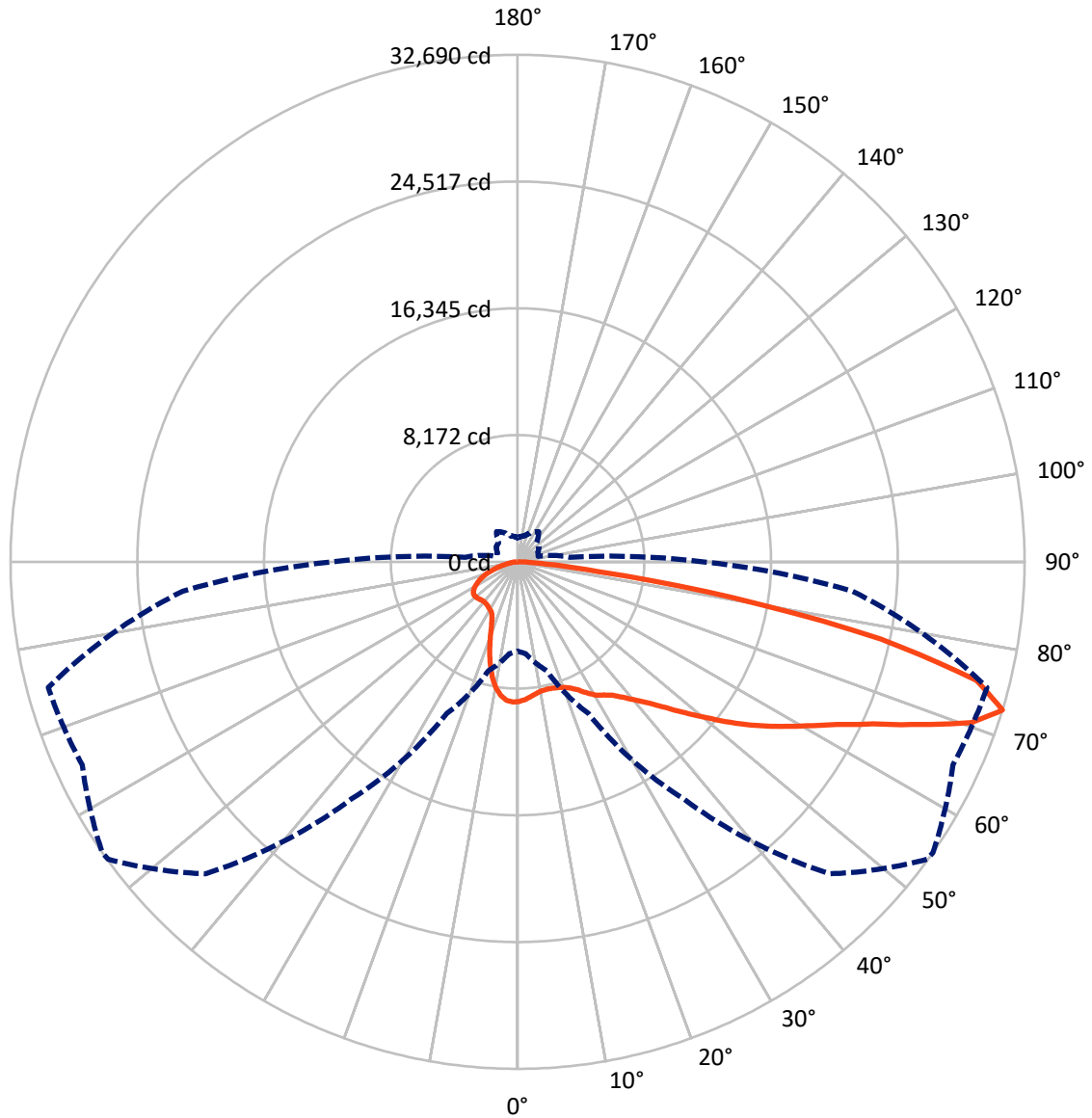
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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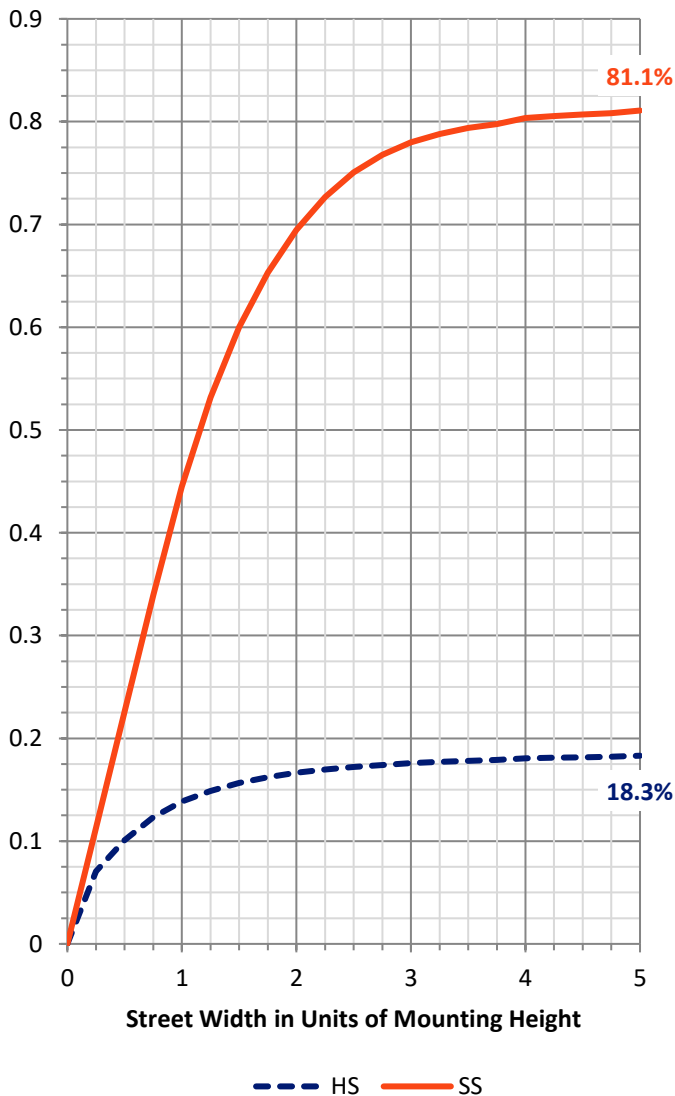
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9498.4	0.0	9498.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41604.6	0.0	41604.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	51103.0	0.0	51103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.6	1.6
10°-20°	2171.5	4.2
20°-30°	3580.2	7.0
30°-40°	5296.0	10.4
40°-50°	7392.1	14.5
50°-60°	9624.8	18.8
60°-70°	11828.6	23.1
70°-80°	9272.2	18.1
80°-90°	1122.1	2.2
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°	51103.0	100.0
0°-180°	51103.0	100.0

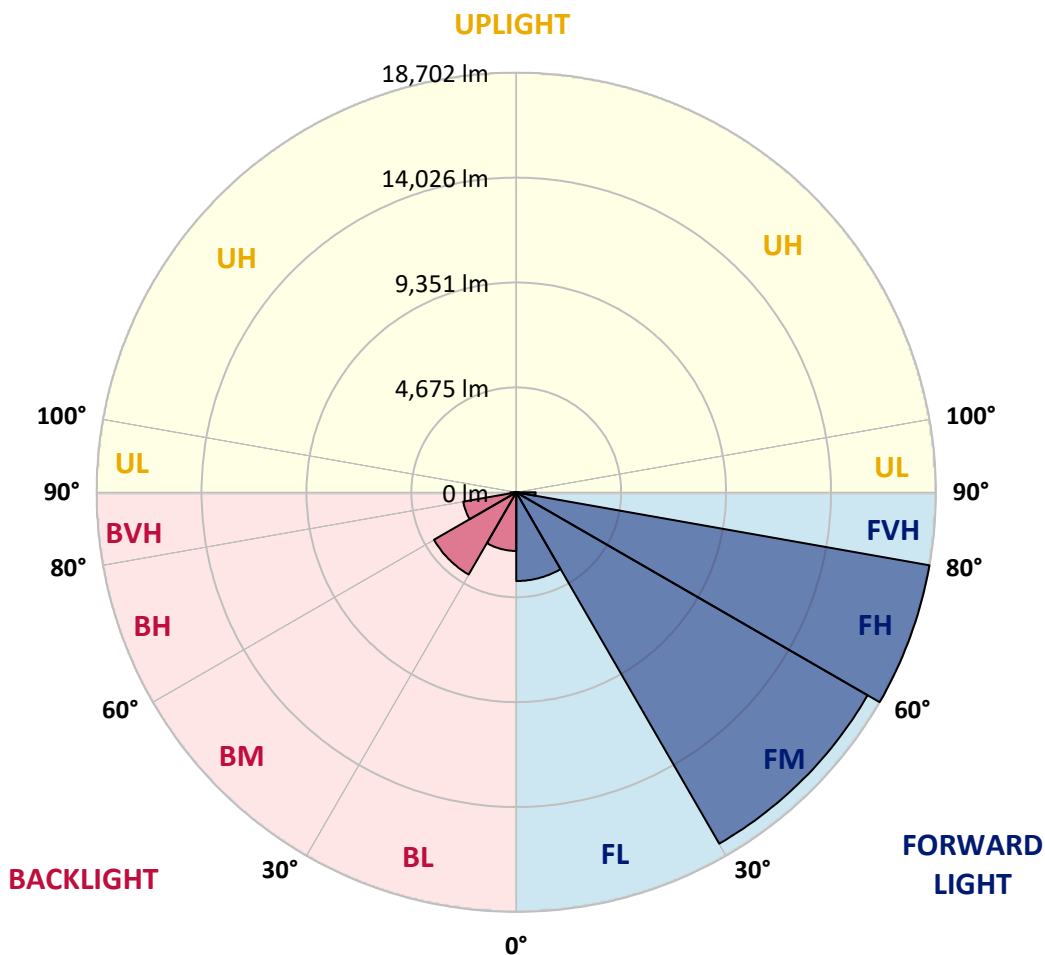


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3953.9	7.7			
FM (30°-60°)	18081.2	35.4			
FH (60°-80°)	18702.0	36.6			G5
FVH (80°-90°)	867.5	1.7			G5
BL (0°-30°)	2613.4	5.1	B4/5000		
BM (30°-60°)	4231.7	8.3	B3/5000		
BH (60°-80°)	2398.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	254.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5
2.5°	8720.0	8699.3	8725.2	8761.5	8801.2	8854.7	8885.7	8899.5	8953.1	8973.8	9018.6
5°	8316.1	8305.8	8348.9	8411.1	8499.1	8623.4	8723.5	8742.5	8884.0	8984.1	9075.6
7.5°	8022.7	8022.7	8072.8	8147.0	8245.4	8412.8	8554.3	8580.2	8820.2	9035.9	9205.1
10°	7789.7	7798.3	7857.0	7945.0	8060.7	8238.5	8426.6	8456.0	8802.9	9156.7	9426.0
12.5°	7634.4	7655.1	7708.6	7788.0	7931.2	8147.0	8385.2	8424.9	8839.1	9329.3	9691.8
15°	7732.7	7767.3	7772.4	7805.2	7884.6	8119.4	8409.3	8450.8	8916.8	9505.4	9993.9
17.5°	8164.2	8176.3	8122.8	8053.8	8015.8	8166.0	8481.8	8525.0	9010.0	9679.7	10283.8
20°	8820.2	8813.2	8697.6	8511.2	8317.9	8342.0	8600.9	8645.8	9136.0	9833.3	10573.8
22.5°	9648.7	9624.5	9446.7	9103.2	8773.5	8635.5	8809.8	8847.8	9325.9	10052.6	10884.5
25°	10653.2	10599.7	10365.0	9904.1	9419.1	9063.5	9123.9	9160.2	9602.1	10297.7	11169.3
27.5°	11713.0	11659.5	11360.9	10803.4	10157.8	9603.8	9557.2	9588.2	9916.2	10478.9	11379.9
30°	12821.2	12764.2	12491.5	11866.6	10941.5	10163.0	9961.1	9973.2	10137.1	10577.3	11552.5
32.5°	13934.5	13881.0	13575.4	12850.5	11792.4	10763.7	10252.8	10237.2	10270.0	10679.1	11747.5
35°	15063.3	15084.0	14726.7	13924.1	12734.8	11431.7	10598.0	10565.2	10492.7	10888.0	12023.7
37.5°	16271.5	16257.7	15795.1	14956.3	13720.4	12156.6	11093.4	11088.2	10837.9	11283.2	12457.0
40°	17079.3	17088.0	16806.6	16012.6	14716.4	12959.2	11728.6	11716.5	11388.5	11875.3	13024.8
42.5°	17395.2	17452.2	17524.7	17020.6	15758.9	13889.6	12486.3	12469.0	12156.6	12724.5	13692.8
45°	17417.6	17531.6	17980.3	17916.5	16815.2	14954.6	13454.6	13406.3	13181.9	13853.3	14490.2
47.5°	17224.3	17341.7	18087.4	18449.8	17759.4	16078.2	14586.9	14548.9	14355.6	15265.2	15353.3
50°	16801.4	16913.6	17866.4	18710.5	18536.1	17158.7	15891.8	15791.7	15688.1	16896.4	16340.6
52.5°	16009.2	16224.9	17571.3	18772.6	19000.4	18118.4	17264.0	17198.4	17255.4	18617.3	17329.6
55°	14133.0	14374.6	16810.1	18720.8	19343.9	18924.5	18636.2	18632.8	18927.9	20422.7	18391.1
57.5°	13081.8	13252.7	15260.1	18632.8	19751.3	19725.4	19994.6	20027.4	20602.2	22388.7	19502.7
60°	12488.0	12667.5	14474.7	18306.6	20383.0	20761.0	21380.7	21446.3	22304.1	24565.2	20840.4
62.5°	11947.8	12144.5	13988.0	17642.0	21126.9	22242.0	23041.1	23099.8	24106.1	26802.2	22133.2
65°	11024.3	11247.0	13275.1	17205.3	21803.6	24173.4	25152.1	25191.8	26175.7	29146.2	23122.3
67.5°	9719.4	9923.1	11930.5	16240.5	22304.1	26519.1	27958.7	27981.1	28227.9	30801.5	23628.0
70°	8195.3	8273.0	10014.6	14248.6	21712.1	28713.0	31034.5	31039.7	30099.0	31861.3	23545.1
72.5°	5758.1	5941.1	7270.2	10786.1	18658.7	28445.4	32631.1	32689.8	30968.9	31326.2	21663.7
75°	3531.5	3724.8	4560.2	6536.6	11837.3	22371.4	30149.0	30556.4	29337.8	27931.1	17697.3
77.5°	2361.2	2433.7	2975.7	3811.1	5362.9	12871.2	23179.2	23945.6	24371.9	20369.2	11317.8
80°	1317.0	1455.1	1972.9	2368.2	2385.4	5114.3	13898.2	14077.7	13559.9	8110.7	3491.8
82.5°	697.3	773.3	1317.0	1391.2	1301.4	1712.2	5179.9	5185.1	4332.4	2174.8	1037.4
85°	540.3	604.1	902.7	849.2	664.5	759.5	1708.8	1802.0	1474.1	890.6	338.3
87.5°	269.3	334.9	612.8	538.5	260.6	217.5	611.0	652.4	581.7	348.7	122.6
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°	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5	9013.5
2.5°	9035.9	9051.4	9070.4	9049.7	9042.8	9015.2	8968.6	8958.2	8934.1	8935.8	8949.6
5°	9115.3	9141.2	9130.8	9051.4	8956.5	8823.6	8685.5	8568.1	8490.5	8485.3	8480.1
7.5°	9267.2	9284.5	9203.3	8977.2	8711.4	8404.2	8114.2	7860.5	7706.8	7668.9	7660.2
10°	9505.4	9501.9	9279.3	8823.6	8293.7	7744.8	7278.8	6926.7	6721.3	6660.9	6645.3
12.5°	9771.2	9731.5	9305.2	8544.0	7703.4	6942.2	6351.9	5960.1	5746.0	5677.0	5659.7
15°	10045.7	9947.3	9241.3	8126.3	6978.4	6077.4	5457.8	5095.3	4979.7	4941.7	4934.8
17.5°	10301.1	10111.2	9058.3	7560.1	6151.7	5216.1	4732.8	4587.9	4615.5	4665.5	4667.3
20°	10551.4	10221.7	8764.9	6845.5	5280.0	4506.7	4342.8	4449.8	4581.0	4682.8	4696.6
22.5°	10798.2	10299.4	8386.9	6020.5	4499.8	4108.0	4223.7	4418.7	4568.9	4679.3	4698.3
25°	11005.3	10318.4	7865.6	5140.2	3957.8	3957.8	4166.7	4351.4	4499.8	4608.6	4627.6
27.5°	11081.3	10190.6	7130.3	4325.5	3685.1	3888.8	4087.3	4240.9	4366.9	4482.6	4503.3
30°	11110.6	9954.2	6281.1	3671.3	3572.9	3814.6	3980.3	4111.5	4230.6	4339.3	4358.3
32.5°	11115.8	9669.4	5380.1	3300.2	3495.3	3736.9	3847.4	3963.0	4090.8	4133.9	4140.8
35°	11148.6	9332.8	4430.8	3110.4	3422.8	3664.4	3752.4	3835.3	3628.2	3643.7	3657.5
37.5°	11243.5	8999.7	3636.8	3003.3	3376.2	3626.4	3731.7	3431.4	3269.2	3231.2	3226.0
40°	11421.3	8644.1	3048.2	2917.0	3358.9	3645.4	3598.8	3203.6	2923.9	2715.1	2684.0
42.5°	11668.1	8260.9	2671.9	2860.1	3371.0	3736.9	3414.1	2984.4	2520.0	2385.4	2368.2
45°	11946.0	7858.7	2468.3	2820.4	3412.4	3807.7	3376.2	2692.6	2331.9	2230.1	2221.4
47.5°	12215.3	7366.8	2363.0	2803.1	3469.4	3750.7	3215.6	2602.9	2242.1	2188.6	2193.8
50°	12524.3	6923.2	2299.1	2784.1	3519.4	3714.5	3034.4	2556.3	2207.6	2273.2	2342.3
52.5°	12784.9	6464.1	2242.1	2746.2	3538.4	3650.6	2987.8	2564.9	2207.6	2333.6	2399.2
55°	13093.9	6117.1	2176.6	2666.8	3502.2	3469.4	2955.0	2616.7	2233.5	2154.1	2161.0
57.5°	13492.6	6003.2	2104.1	2542.5	3381.3	3205.3	2939.5	2666.8	2218.0	2167.9	2185.2
60°	14044.9	6124.1	2074.7	2380.2	3193.2	2998.2	2941.2	2640.9	2109.2	2022.9	2024.7
62.5°	14571.4	6258.7	2073.0	2278.4	2961.9	2813.5	2901.5	2556.3	2054.0	2004.0	2022.9
65°	14744.0	6122.3	1990.1	2164.5	2701.3	2592.5	2829.0	2466.5	2012.6	1936.6	1933.2
67.5°	14512.7	5699.4	1822.7	1979.8	2402.7	2335.4	2734.1	2359.5	1947.0	1884.9	1874.5
70°	13825.7	4755.3	1615.6	1736.4	2062.6	2045.4	2583.9	2235.2	1859.0	1805.5	1760.6
72.5°	11977.1	3388.2	1361.9	1444.7	1679.5	1734.7	2376.8	2073.0	1734.7	1619.0	1550.0
75°	9836.8	2508.0	1118.5	1135.7	1275.6	1425.7	2092.0	1883.1	1588.0	1391.2	1337.7
77.5°	6023.9	1534.5	890.6	897.5	914.8	1137.5	1722.6	1670.8	1401.6	1159.9	1121.9
80°	1950.4	837.1	643.8	676.6	624.8	833.7	1332.5	1422.3	1203.1	970.0	928.6
82.5°	742.2	488.5	435.0	457.4	433.2	559.2	971.8	1139.2	985.6	797.4	649.0
85°	359.0	276.2	257.2	288.3	267.5	286.5	621.4	838.9	747.4	519.5	483.3
87.5°	127.7	122.6	98.4	132.9	113.9	101.8	189.9	422.9	493.7	357.3	319.3
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)