

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: P318082

Luminaire Tested: **GAN-SA8B-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44944 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

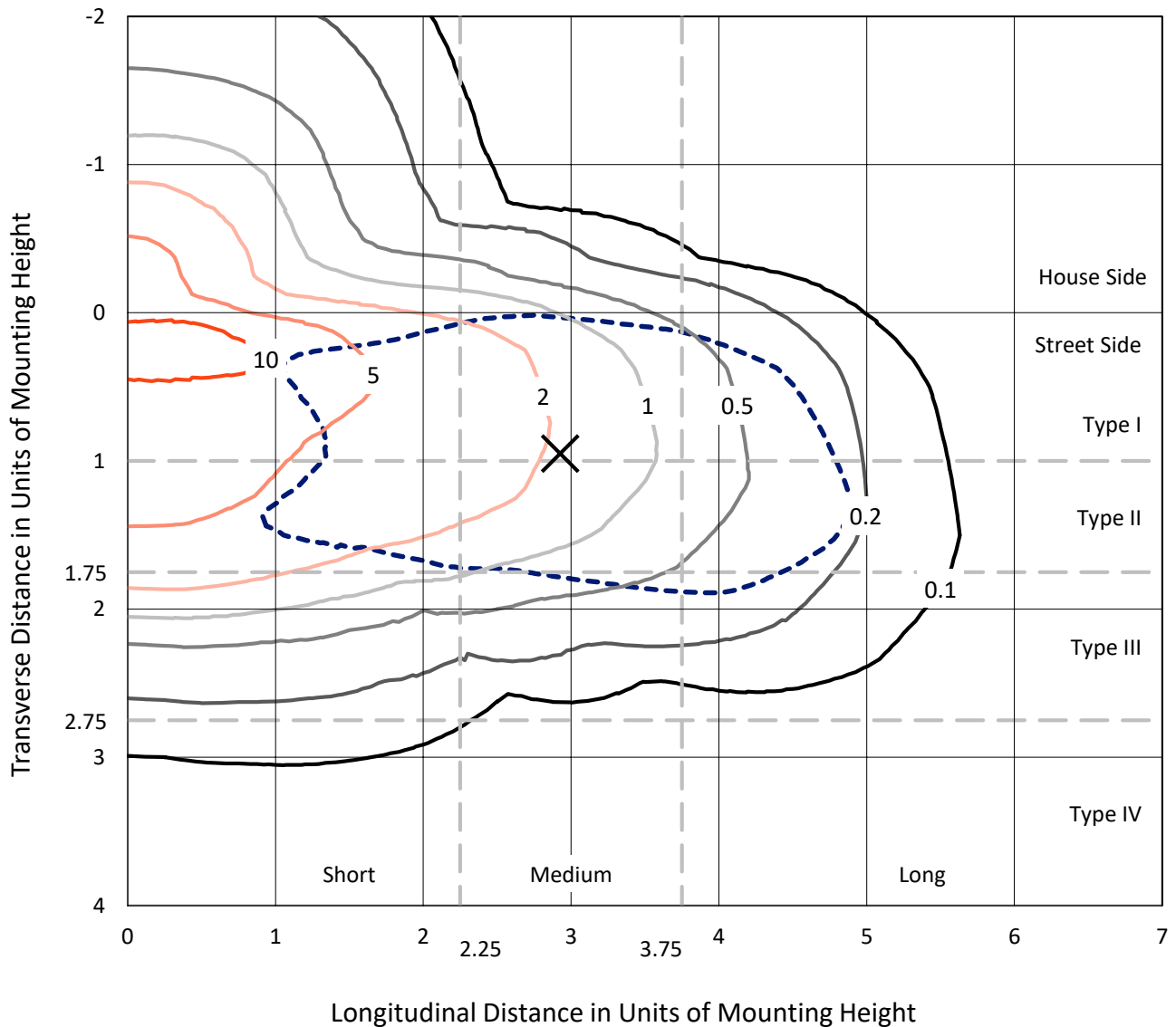
Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

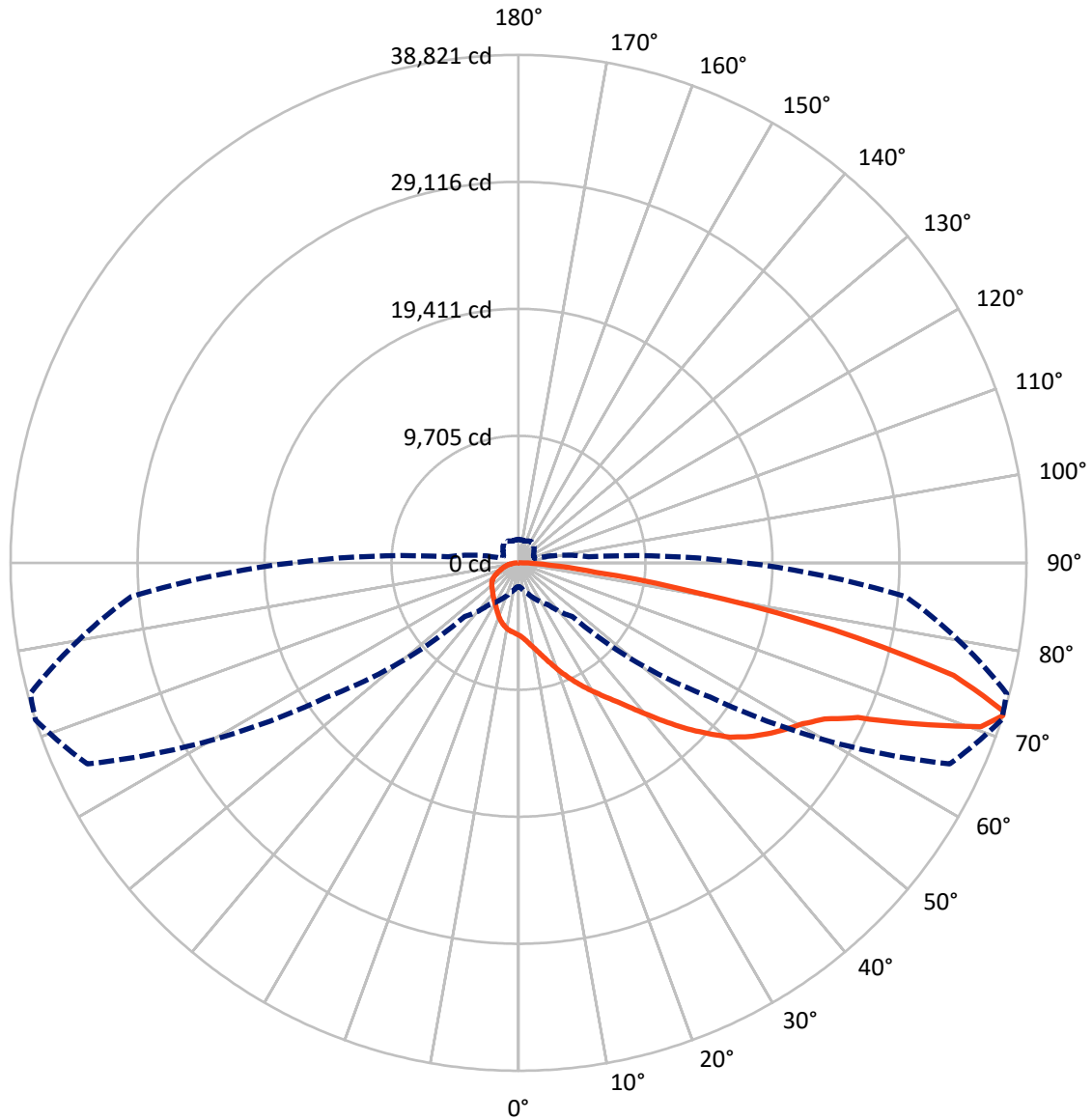
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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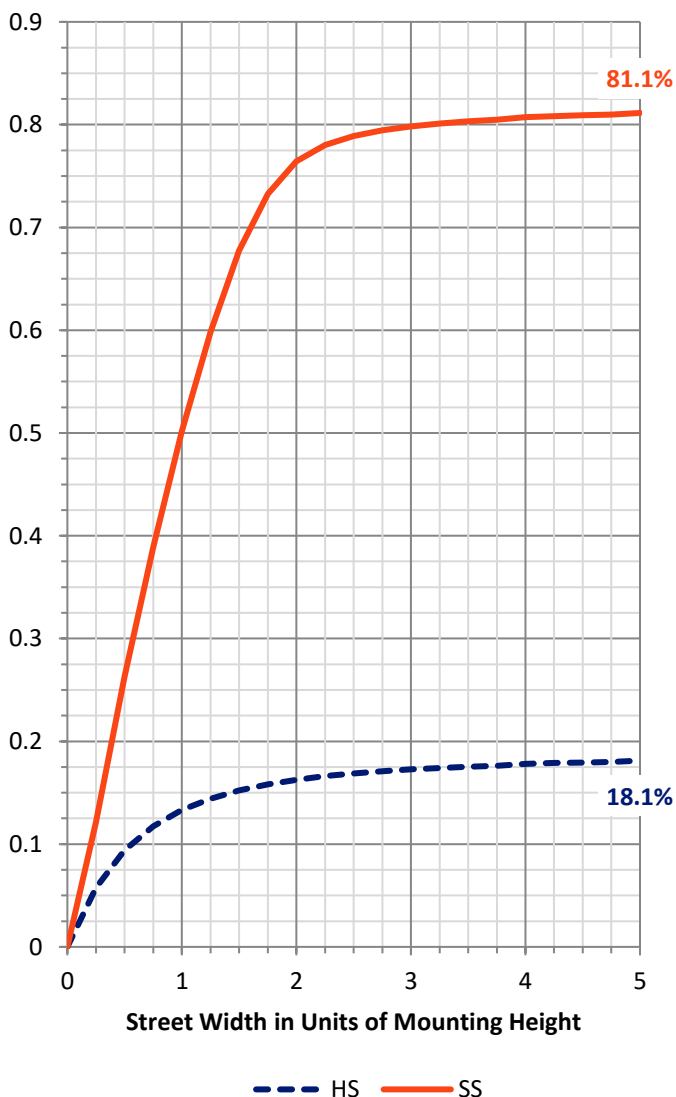
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8337.4	0.0	8337.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36606.6	0.0	36606.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	44944.0	0.0	44944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	1.2
10°-20°	1790.4	4.0
20°-30°	3137.4	7.0
30°-40°	4651.8	10.4
40°-50°	6803.6	15.1
50°-60°	9361.6	20.8
60°-70°	10422.3	23.2
70°-80°	7062.1	15.7
80°-90°	1160.7	2.6
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°	44944.0	100.0
0°-180°	44944.0	100.0

Coefficient of Utilization

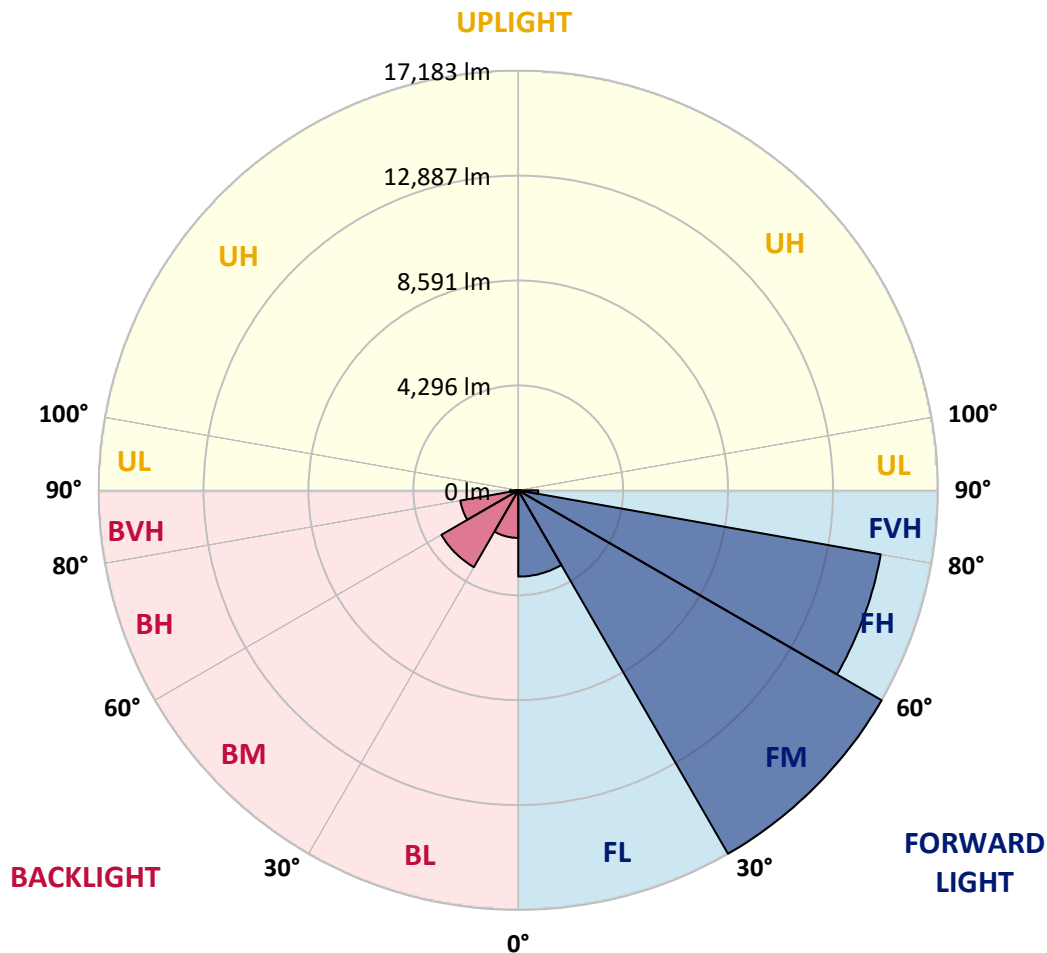


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3532.9	7.9			
FM (30°-60°)	17182.6	38.2			
FH (60°-80°)	15072.3	33.5			G5
FVH (80°-90°)	818.8	1.8			G5
BL (0°-30°)	1949.0	4.3	B3/2500		
BM (30°-60°)	3634.3	8.1	B3/5000		
BH (60°-80°)	2412.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	342.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3
2.5°	6108.1	6098.8	6066.3	6066.3	6004.4	5951.8	5852.7	5786.2	5707.2	5679.4	5586.5
5°	6699.2	6702.3	6662.1	6634.2	6542.9	6431.5	6262.8	6109.6	5956.4	5894.5	5704.2
7.5°	7196.0	7189.8	7178.9	7155.7	7070.6	6956.1	6728.6	6501.1	6275.2	6182.3	5854.3
10°	7514.8	7528.7	7538.0	7548.8	7513.2	7431.2	7216.1	6939.1	6643.5	6516.6	6033.8
12.5°	7675.7	7700.5	7743.8	7818.1	7876.9	7867.6	7711.3	7417.3	7066.0	6906.6	6258.2
15°	7770.1	7802.6	7870.7	8003.8	8169.4	8263.8	8222.0	7955.8	7564.3	7367.7	6532.1
17.5°	7828.9	7855.2	7960.4	8138.4	8384.5	8635.2	8745.0	8522.2	8127.6	7903.2	6846.2
20°	7869.1	7889.3	8020.8	8229.7	8548.5	8947.8	9254.2	9198.5	8748.1	8457.2	7174.3
22.5°	7958.9	7975.9	8101.3	8311.7	8664.6	9179.9	9744.7	9828.3	9402.7	9073.1	7525.6
25°	8209.6	8209.6	8314.8	8461.8	8793.0	9381.1	10159.5	10529.3	10071.3	9687.5	7850.6
27.5°	8687.8	8683.1	8721.8	8772.9	9023.6	9585.3	10529.3	11148.3	10764.5	10345.2	8166.3
30°	9254.2	9285.1	9289.8	9265.0	9382.6	9840.7	10871.3	11801.4	11462.5	11010.6	8489.7
32.5°	9983.0	10003.2	9979.9	9897.9	9880.9	10202.8	11207.1	12485.4	12217.7	11705.4	8785.3
35°	10908.5	10869.8	10797.0	10629.9	10470.5	10687.2	11590.9	13169.4	13065.7	12545.7	9192.3
37.5°	11900.4	11902.0	11812.2	11433.1	11213.3	11306.2	12120.2	13944.7	14091.7	13545.4	9713.8
40°	12695.8	12737.6	12793.3	12295.0	12010.3	12138.7	12793.3	14843.8	15305.0	14730.8	10393.1
42.5°	13251.4	13299.4	13457.2	13144.6	12849.0	13087.4	13585.7	15803.3	16666.8	16098.8	11188.6
45°	13839.5	13865.8	13977.2	13842.6	13653.8	14190.7	14478.6	16796.8	18107.5	17556.6	12078.4
47.5°	14458.5	14486.3	14600.8	14511.1	14412.0	15221.4	15410.2	17733.0	19487.9	19158.3	13028.6
50°	15222.9	15241.5	15349.8	15187.3	15218.3	15998.2	16242.8	18591.9	20934.8	20597.5	13981.8
52.5°	16266.0	16270.6	16420.7	16273.7	16128.2	16567.7	16959.3	19401.2	22069.2	21909.8	14935.1
55°	17083.1	17132.6	17624.7	17593.7	17510.2	17084.6	17558.1	20171.9	23081.2	23157.1	15947.2
57.5°	16561.5	16755.0	17751.6	18454.2	19138.2	18370.6	18367.5	21040.1	24022.1	24381.2	17059.8
60°	14504.9	14768.0	16236.6	17794.9	19935.1	20608.3	20048.1	22100.1	24972.3	25594.4	18454.2
62.5°	10359.1	10792.4	12782.5	15270.9	18842.6	22090.8	23468.1	23782.3	26264.5	26999.6	20266.3
65°	5236.8	5564.9	7233.1	10230.6	15054.3	21122.1	27185.3	27465.4	28509.9	29163.0	23056.5
67.5°	3181.7	3305.5	4119.5	5690.2	9229.4	16453.2	28398.5	33604.4	32855.4	33202.0	27035.2
70°	2344.5	2435.8	2943.4	3779.0	5308.0	9655.0	24675.2	37985.4	37493.3	37454.6	29975.4
72°	1826.1	1892.6	2341.4	3053.3	3881.2	5792.4	17884.7	36368.2	38821.1	38626.1	29706.2
72.5°	1731.7	1790.5	2199.0	2873.7	3667.6	5250.7	16080.3	35277.2	38725.1	38636.9	29358.0
75°	1363.4	1405.1	1628.0	2222.2	2870.6	2979.0	8811.6	27338.5	34353.4	35781.7	26405.3
77.5°	1128.1	1134.3	1251.9	1617.2	2237.7	2106.2	4328.4	18967.9	24599.4	26170.1	18704.9
80°	919.2	927.0	982.7	1134.3	1693.0	1558.4	2055.1	10906.9	13772.9	13789.9	8895.1
82.5°	732.0	733.5	795.4	829.5	1216.3	1114.2	1177.7	5120.7	6018.3	5789.3	3197.2
85°	515.3	504.5	776.9	680.9	795.4	715.0	650.0	2027.2	2488.4	2380.1	1001.2
87.5°	171.8	178.0	345.1	441.0	464.3	405.4	289.4	776.9	939.3	931.6	317.2
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°	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3	5529.3
2.5°	5557.1	5507.6	5434.9	5354.4	5291.0	5226.0	5178.0	5153.2	5125.4	5102.2	5130.0
5°	5615.9	5523.1	5368.3	5216.7	5105.3	5006.2	4935.0	4897.9	4863.9	4840.6	4843.7
7.5°	5711.9	5561.8	5301.8	5080.5	4925.8	4819.0	4746.2	4721.5	4699.8	4693.6	4701.4
10°	5814.0	5592.7	5213.6	4919.6	4743.1	4654.9	4622.4	4639.5	4654.9	4668.9	4684.3
12.5°	5930.1	5620.6	5085.1	4730.8	4580.7	4546.6	4579.1	4653.4	4707.6	4740.0	4760.2
15°	6081.7	5645.3	4936.6	4542.0	4441.4	4480.1	4589.9	4718.4	4812.8	4873.1	4882.4
17.5°	6221.0	5643.8	4746.2	4351.6	4328.4	4441.4	4607.0	4788.0	4914.9	5000.0	5017.1
20°	6364.9	5602.0	4524.9	4165.9	4213.9	4399.6	4614.7	4832.9	4986.1	5085.1	5108.4
22.5°	6499.6	5529.3	4282.0	3997.2	4117.9	4343.9	4585.3	4806.6	4959.8	5040.3	5065.0
25°	6590.9	5402.4	4035.9	3854.9	4032.8	4275.8	4489.4	4667.3	4781.8	4822.1	4828.3
27.5°	6637.3	5236.8	3803.8	3731.1	3944.6	4164.4	4311.4	4399.6	4432.1	4429.0	4422.8
30°	6643.5	5018.6	3604.2	3630.5	3842.5	4000.3	4070.0	4053.0	4011.2	3940.0	3946.2
32.5°	6623.4	4772.5	3437.0	3534.5	3712.5	3800.7	3803.8	3721.8	3610.4	3497.4	3466.4
35°	6629.6	4531.1	3290.0	3426.2	3554.7	3593.3	3557.7	3437.0	3285.4	3139.9	3109.0
37.5°	6697.7	4320.7	3163.1	3300.9	3379.8	3389.1	3338.0	3211.1	3099.7	2957.3	2944.9
40°	6860.2	4170.6	3042.4	3160.0	3204.9	3209.6	3136.8	3047.1	3056.3	2980.5	2979.0
42.5°	7152.6	4105.6	2935.6	3013.0	3040.9	3050.2	2994.4	2937.2	3017.7	2968.1	2951.1
45°	7530.2	4121.0	2845.9	2869.1	2920.2	2963.5	2929.5	2859.8	2890.8	2675.7	2604.5
47.5°	7966.6	4220.1	2774.7	2745.3	2833.5	2915.5	2862.9	2757.7	2647.8	2434.2	2394.0
50°	8477.3	4373.3	2709.7	2623.0	2739.1	2850.5	2797.9	2647.8	2482.2	2378.5	2364.6
52.5°	9009.7	4560.5	2644.7	2488.4	2619.9	2801.0	2774.7	2623.0	2418.8	2316.6	2298.1
55°	9613.2	4749.3	2562.7	2332.1	2491.5	2777.8	2763.9	2533.3	2370.8	2313.5	2299.6
57.5°	10363.7	4964.4	2454.4	2169.6	2370.8	2694.2	2650.9	2479.1	2321.3	2277.9	2273.3
60°	11341.8	5281.7	2298.1	1996.3	2223.8	2565.8	2556.5	2400.2	2242.4	2211.4	2205.2
62.5°	12808.8	5806.3	2083.0	1823.0	2059.7	2347.6	2432.7	2293.4	2158.8	2157.2	2160.3
65°	15083.7	6595.5	1849.3	1671.3	1894.2	2163.4	2288.8	2183.5	2073.7	2104.6	2109.3
67.5°	17720.6	7250.1	1620.3	1522.8	1725.5	1988.6	2158.8	2073.7	1960.7	2041.2	2042.7
70°	18598.1	6665.2	1419.1	1375.7	1550.6	1819.9	2018.0	1953.0	1838.5	1918.9	1911.2
72°	17307.4	5380.7	1289.1	1264.3	1419.1	1680.6	1892.6	1840.0	1727.0	1781.2	1761.1
72.5°	16900.5	5130.0	1256.6	1236.5	1383.5	1645.0	1860.1	1812.1	1699.2	1745.6	1727.0
75°	15075.9	4455.3	1080.2	1084.8	1207.1	1471.7	1677.5	1662.0	1546.0	1550.6	1544.4
77.5°	10934.8	3266.8	909.9	940.9	1027.6	1293.7	1493.4	1484.1	1357.2	1334.0	1329.3
80°	5074.3	1666.7	741.3	755.2	844.9	1081.7	1273.6	1261.2	1159.1	1129.7	1112.7
82.5°	1737.9	792.3	557.1	566.4	654.6	871.3	1104.9	1097.2	1012.1	954.8	919.2
85°	620.6	394.6	390.0	380.7	467.4	685.6	962.6	920.8	795.4	677.8	674.7
87.5°	201.2	168.7	201.2	199.6	272.4	464.3	699.5	595.8	577.2	479.7	470.4
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)