

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: P318704

Luminaire Tested: **GAN-SA0D-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70361 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

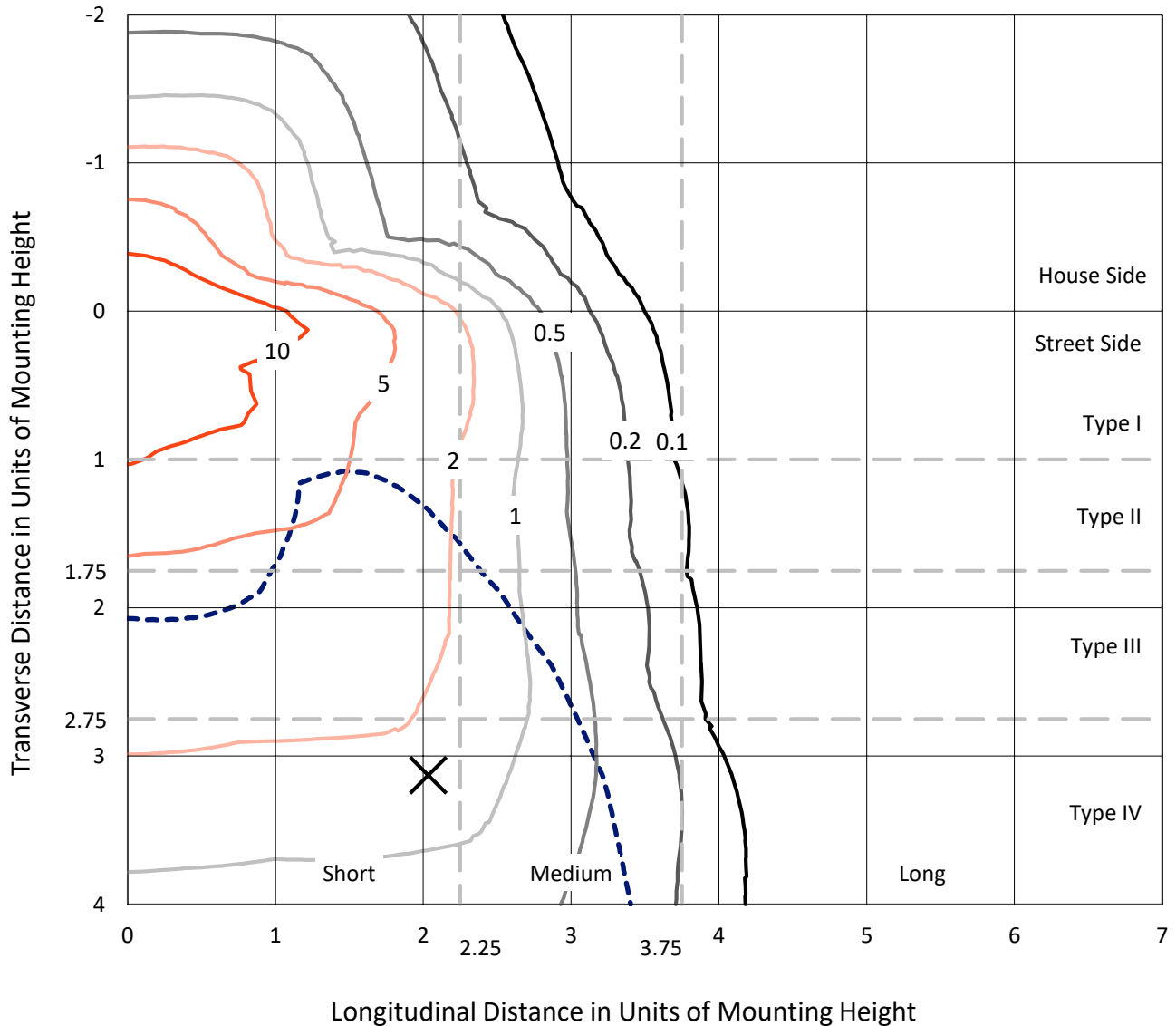
Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

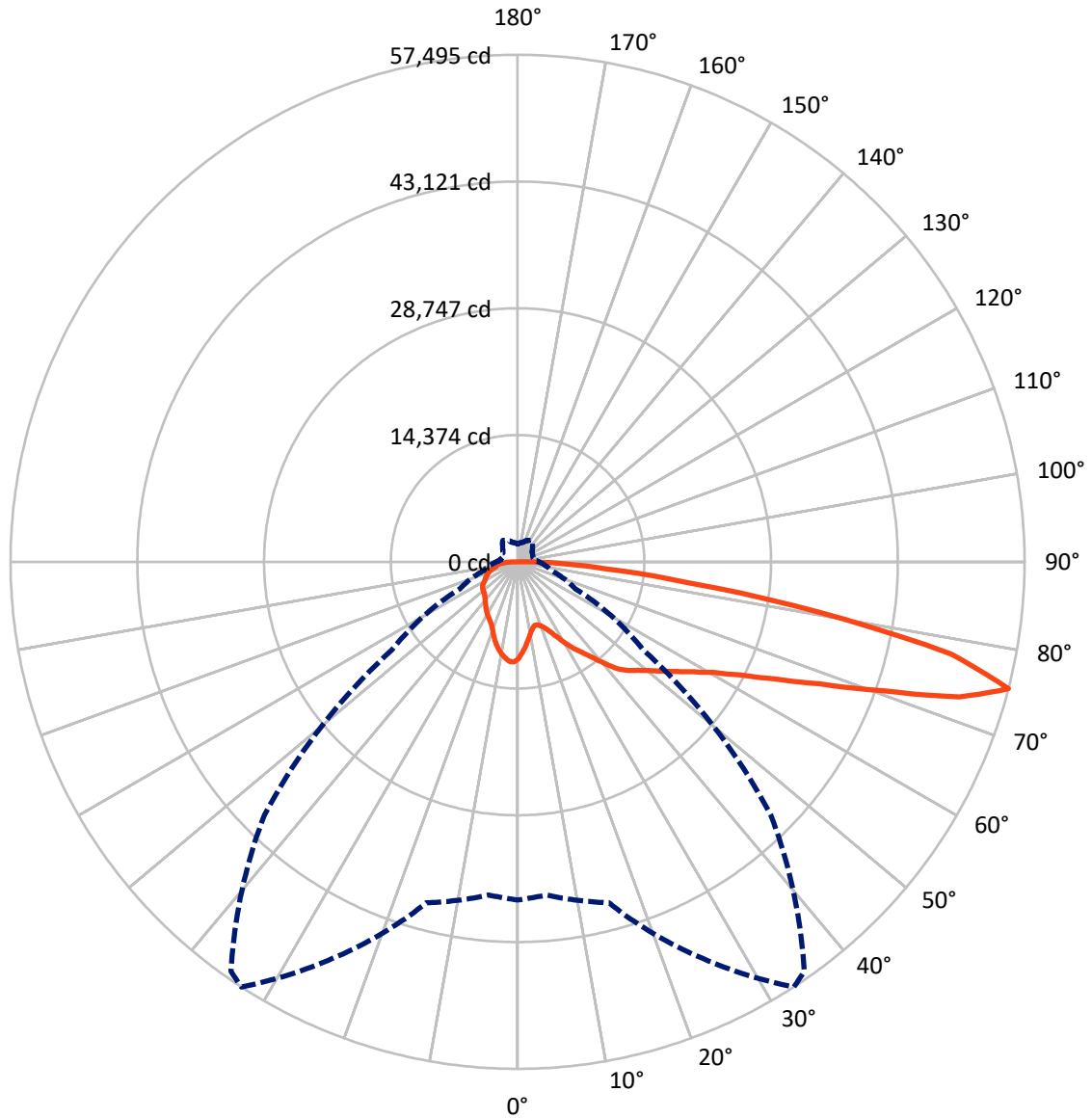
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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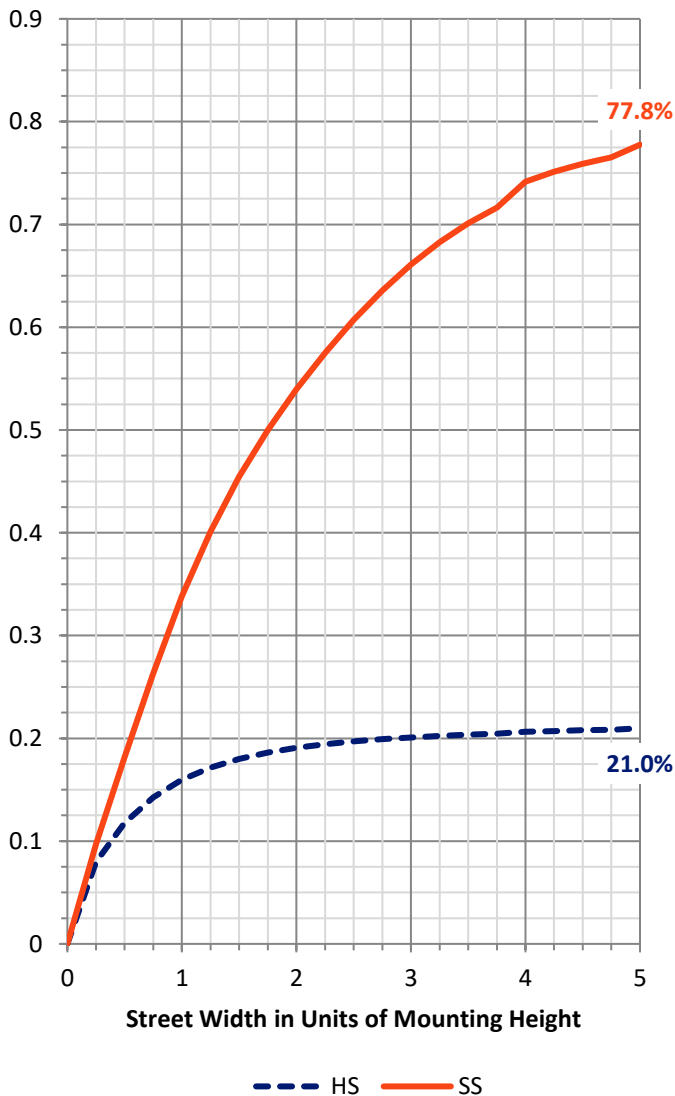
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15108.3	0.0	15108.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	55252.7	0.0	55252.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	70361.0	0.0	70361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.6	1.4
10°-20°	2693.8	3.8
20°-30°	4399.4	6.3
30°-40°	6551.8	9.3
40°-50°	9397.0	13.4
50°-60°	12900.7	18.3
60°-70°	16151.1	23.0
70°-80°	14611.1	20.8
80°-90°	2661.5	3.8
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°	70361.0	100.0
0°-180°	70361.0	100.0

Coefficient of Utilization

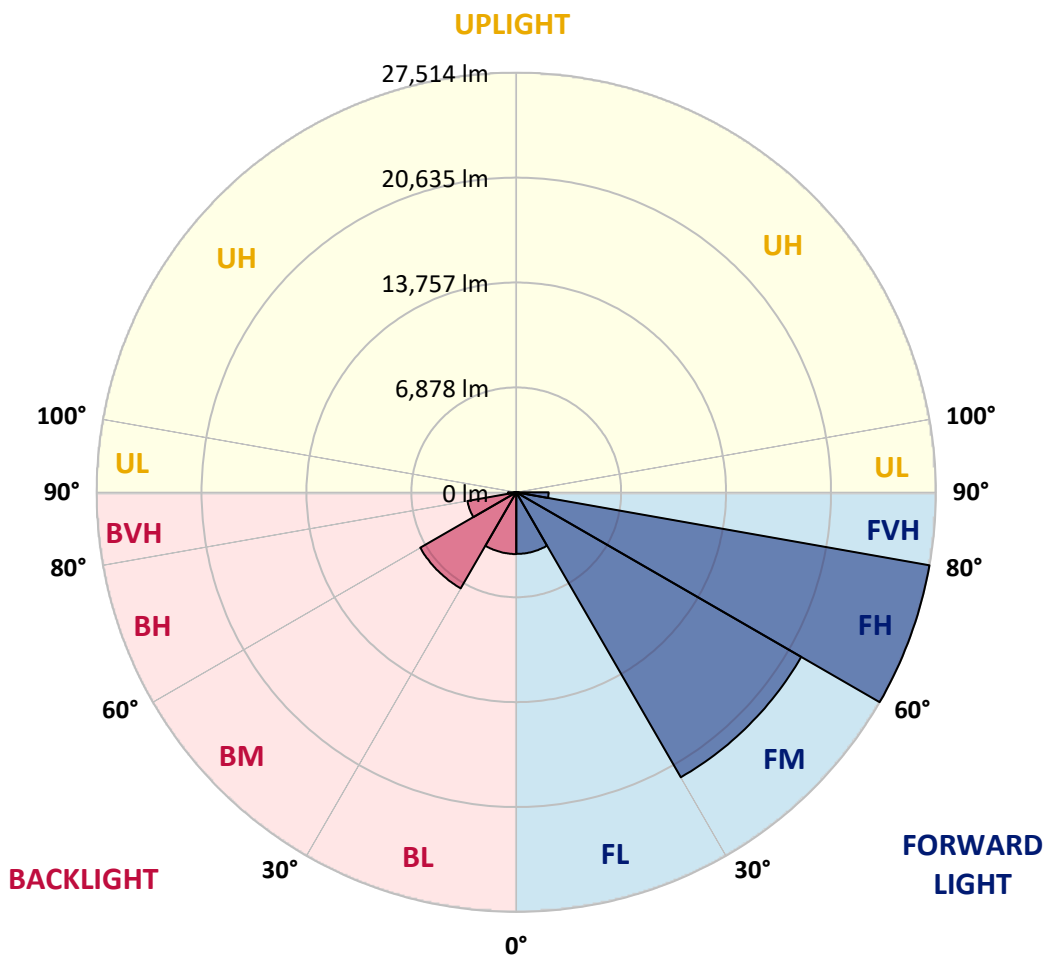


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4041.2	5.7			
FM (30°-60°)	21578.3	30.7			
FH (60°-80°)	27513.6	39.1			G5
FVH (80°-90°)	2119.6	3.0			G5
BL (0°-30°)	4046.7	5.8	B4/5000		
BM (30°-60°)	7271.2	10.3	B4/8500		
BH (60°-80°)	3248.6	4.6	B4/5000		G4/5000
BVH (80°-90°)	541.8	0.8			G4/750
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8
2.5°	10212.8	10173.9	10246.8	10256.5	10319.7	10344.0	10431.5	10567.6	10679.4	10808.2	10924.9
5°	9286.8	9260.0	9362.1	9435.0	9573.6	9631.9	9838.5	10127.7	10385.3	10677.0	10941.9
7.5°	8407.0	8392.4	8506.6	8671.9	8832.3	8912.5	9269.8	9690.2	10120.4	10591.9	10997.8
10°	7665.7	7660.8	7770.2	7933.0	8168.8	8258.7	8720.5	9274.6	9877.4	10526.3	11092.6
12.5°	7250.1	7267.1	7318.1	7454.2	7673.0	7762.9	8275.7	8927.1	9673.2	10504.4	11231.1
15°	7352.1	7378.9	7291.4	7286.5	7442.1	7512.5	7993.8	8679.2	9527.4	10540.9	11432.9
17.5°	7787.2	7792.0	7561.2	7415.3	7510.1	7546.6	7906.3	8538.2	9442.3	10623.5	11685.6
20°	8399.7	8387.5	7979.2	7736.1	7787.2	7796.9	8030.2	8540.6	9435.0	10766.9	12013.7
22.5°	9211.4	9121.5	8572.2	8241.7	8229.5	8214.9	8348.6	8720.5	9542.0	11000.2	12405.1
25°	10271.1	10186.0	9430.2	8978.1	8880.9	8844.4	8863.9	9104.5	9753.4	11250.6	12842.5
27.5°	11449.9	11301.6	10572.5	9933.3	9731.6	9680.5	9563.8	9646.5	9984.3	11491.2	13362.7
30°	12436.6	12356.4	11719.7	10961.4	10723.2	10650.3	10344.0	10254.1	10317.3	11819.3	14018.9
32.5°	12988.4	12934.9	12548.5	11936.0	11714.8	11612.7	11180.1	11000.2	10852.0	12337.0	14908.4
35°	13656.7	13622.7	13389.4	12944.6	12616.5	12509.6	12174.2	11987.0	11605.4	13049.1	16058.0
37.5°	14507.4	14470.9	14475.8	14116.1	13724.8	13625.1	13404.0	13207.1	12582.5	13984.9	17307.3
40°	15469.9	15399.4	15372.6	15355.6	15107.7	15051.8	14935.2	14667.8	13807.4	15102.9	18539.5
42.5°	16918.4	16668.1	16133.4	16335.1	16580.6	16551.4	16646.2	16262.2	15168.5	16425.0	19742.6
45°	18315.9	17905.2	16981.6	17025.4	17562.5	17725.3	18435.0	18162.8	16643.8	17873.6	20987.0
47.5°	18952.7	18641.6	17856.6	17859.0	18391.3	18729.1	20284.6	20090.2	18194.4	19519.0	22506.0
50°	19664.8	19353.7	18648.9	18913.8	19378.0	19737.7	22071.0	21971.3	19669.7	21320.0	24326.4
52.5°	20442.6	19915.2	19468.0	19941.9	20593.3	21011.3	23859.8	23587.6	21023.5	23133.1	26419.1
55°	20452.3	20308.9	20649.2	20996.7	21971.3	22484.2	25733.7	25014.3	22126.9	24914.6	28122.8
57.5°	21616.5	21383.2	22105.0	22265.4	23539.0	24117.4	27597.8	26256.2	23249.8	26280.5	29041.5
60°	23157.4	22958.1	23548.7	23971.6	25478.5	26251.4	29588.4	27532.2	24132.0	27311.0	28997.8
62.5°	25818.7	25592.7	25585.4	26178.5	28207.9	29107.2	31822.0	28783.9	24482.0	27515.2	27760.7
65°	29714.8	29355.1	28677.0	28958.9	31977.5	32874.4	34318.1	29690.5	24020.2	26421.5	24574.4
67.5°	33506.3	33494.1	32660.5	33238.9	36955.1	37674.5	37161.7	29780.4	22578.9	22613.0	18921.1
70°	37285.6	37334.3	37193.3	39205.7	43680.2	44428.8	40190.0	28572.5	19339.1	16330.2	11335.7
72.5°	40280.0	40267.8	40977.5	46166.5	52407.9	52240.2	42742.0	24912.2	13885.2	8815.3	5417.5
75°	38340.5	37917.6	40032.1	49612.9	57494.9	56675.8	40571.6	17377.8	7206.3	4012.7	2916.5
77.5°	25007.0	25408.0	28511.7	40984.8	50291.0	49294.5	29765.8	8108.0	3395.3	2632.2	2114.5
80°	9055.9	9478.8	13350.5	23215.7	34648.6	34485.8	14658.1	3332.2	2296.8	1988.1	1540.9
82.5°	3115.8	3271.4	5266.8	10310.0	19562.7	20291.9	5514.7	1893.3	1669.7	1409.7	1054.8
85°	1222.5	1399.9	2408.6	4960.6	9867.7	9940.6	2233.6	1132.6	1161.8	923.6	578.4
87.5°	464.2	563.9	1152.0	2304.1	4506.1	4139.1	799.6	539.6	661.1	549.3	274.6
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°	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8	10997.8
2.5°	11014.8	11065.9	11172.8	11245.7	11323.5	11345.4	11355.1	11374.5	11394.0	11386.7	11389.1
5°	11082.9	11182.5	11355.1	11428.0	11462.0	11423.1	11347.8	11287.0	11243.3	11219.0	11211.7
7.5°	11194.7	11335.7	11520.4	11508.2	11430.4	11257.9	11063.4	10917.6	10796.1	10752.3	10728.0
10°	11342.9	11508.2	11637.0	11498.5	11272.5	10973.5	10681.9	10455.8	10273.5	10203.1	10190.9
12.5°	11532.5	11700.2	11724.5	11430.4	11056.1	10647.8	10251.7	9952.7	9680.5	9593.0	9573.6
15°	11778.0	11936.0	11785.3	11311.3	10788.8	10239.5	9726.7	9320.8	9034.0	8927.1	8888.2
17.5°	12035.6	12186.3	11797.4	11114.5	10438.8	9755.9	9111.8	8696.2	8368.1	8244.1	8229.5
20°	12344.3	12412.3	11746.4	10832.5	9957.6	9128.8	8450.7	8059.4	7884.4	7796.9	7787.2
22.5°	12725.9	12653.0	11629.7	10451.0	9347.5	8404.5	7852.8	7670.5	7626.8	7607.3	7614.6
25°	13129.3	12905.7	11457.2	9952.7	8577.1	7680.2	7415.3	7466.4	7524.7	7517.4	7517.4
27.5°	13574.1	13163.4	11192.3	9291.6	7724.0	7087.2	7118.8	7306.0	7393.5	7391.0	7388.6
30°	14145.3	13455.0	10854.4	8496.9	6926.8	6669.2	6861.2	7089.6	7208.7	7203.9	7206.3
32.5°	14847.7	13775.8	10395.1	7609.8	6350.8	6360.5	6581.7	6807.7	6946.2	6934.1	6936.5
35°	15669.2	14135.5	9772.9	6734.8	5969.2	6115.0	6290.0	6448.0	6579.2	6562.2	6545.2
37.5°	16563.6	14488.0	8946.5	5952.2	5658.1	5886.6	6032.4	6059.1	6119.9	6076.1	6044.5
40°	17414.2	14757.7	7882.0	5310.5	5344.6	5692.1	5786.9	5680.0	5570.6	5556.0	5512.3
42.5°	18155.5	14847.7	6805.3	4797.7	5014.0	5488.0	5546.3	5322.7	5125.8	5033.5	4994.6
45°	18938.1	14879.3	5801.5	4367.5	4695.6	5305.7	5368.9	5069.9	4792.9	4593.6	4527.9
47.5°	19961.3	15107.7	5021.3	4049.1	4452.6	5184.2	5274.1	4868.2	4508.5	4224.1	4163.4
50°	21300.5	15559.8	4387.0	3806.1	4294.6	5104.0	5206.0	4671.3	4275.2	3932.5	3871.7
52.5°	22788.0	15975.4	3874.1	3609.2	4141.5	4963.0	5118.5	4530.4	4056.4	3662.7	3597.1
55°	23828.2	15657.0	3461.0	3405.1	3942.2	4761.3	4997.0	4411.3	3742.9	3400.2	3341.9
57.5°	24027.5	14568.2	3147.4	3193.6	3701.6	4508.5	4809.9	4146.4	3572.8	3286.0	3225.2
60°	23483.1	13051.6	2914.1	2999.2	3444.0	4190.1	4459.9	3959.2	3409.9	3164.5	3113.4
62.5°	22114.7	11498.5	2741.6	2824.2	3203.3	3866.9	4241.1	3762.3	3244.7	3025.9	2974.9
65°	19351.3	9653.8	2576.3	2668.6	2979.7	3587.4	4044.3	3580.1	3081.8	2914.1	2865.5
67.5°	14607.0	7230.6	2420.7	2503.4	2780.4	3344.3	3830.4	3400.2	2923.8	2816.9	2758.6
70°	8601.4	4527.9	2243.3	2330.8	2571.4	3091.5	3601.9	3203.3	2727.0	2678.4	2603.0
72.5°	4003.0	2724.5	2041.6	2126.7	2308.9	2753.7	3307.9	2945.7	2493.6	2386.7	2284.6
75°	2389.1	1993.0	1803.4	1878.7	2007.6	2394.0	2938.4	2683.2	2272.5	2131.5	2024.6
77.5°	1786.4	1523.9	1540.9	1621.1	1725.6	2095.1	2603.0	2476.6	2102.3	1993.0	1920.1
80°	1285.7	1156.9	1256.5	1344.0	1453.4	1905.5	2493.6	2289.5	1900.6	1754.8	1686.7
82.5°	858.0	831.2	945.4	1035.4	1142.3	1667.3	2343.0	2005.1	1623.5	1438.8	1288.1
85°	473.9	500.7	636.8	675.7	768.0	1173.9	1920.1	1611.4	1222.5	984.3	940.6
87.5°	196.9	230.9	342.7	330.5	408.3	700.0	1263.8	972.2	777.7	580.9	452.1
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)