

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: P317701

Luminaire Tested: **GAN-SA7D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317701
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-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 46927 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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

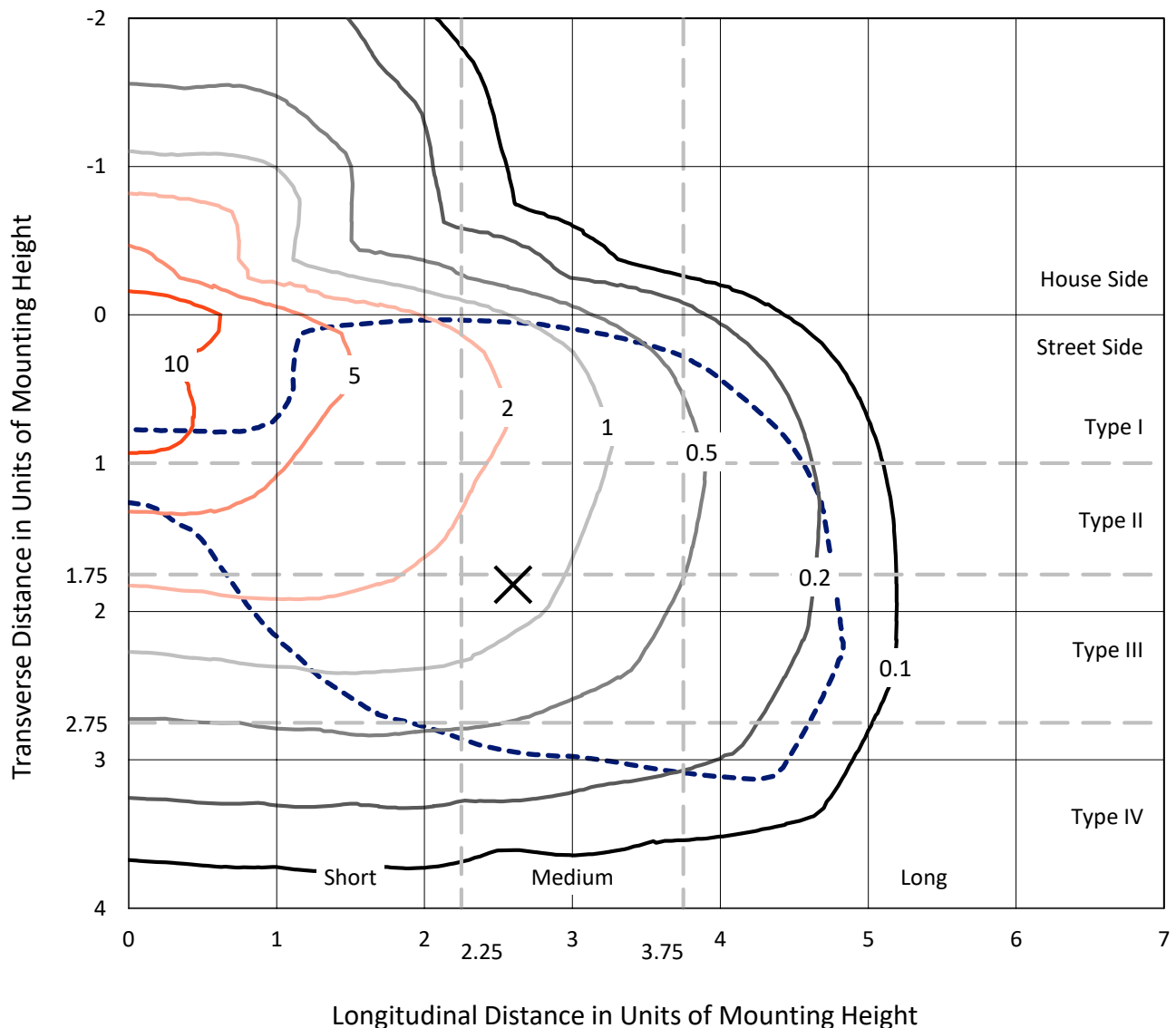


REPORT NUMBER: P317701

CATALOG NUMBER: GAN-SA7D-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

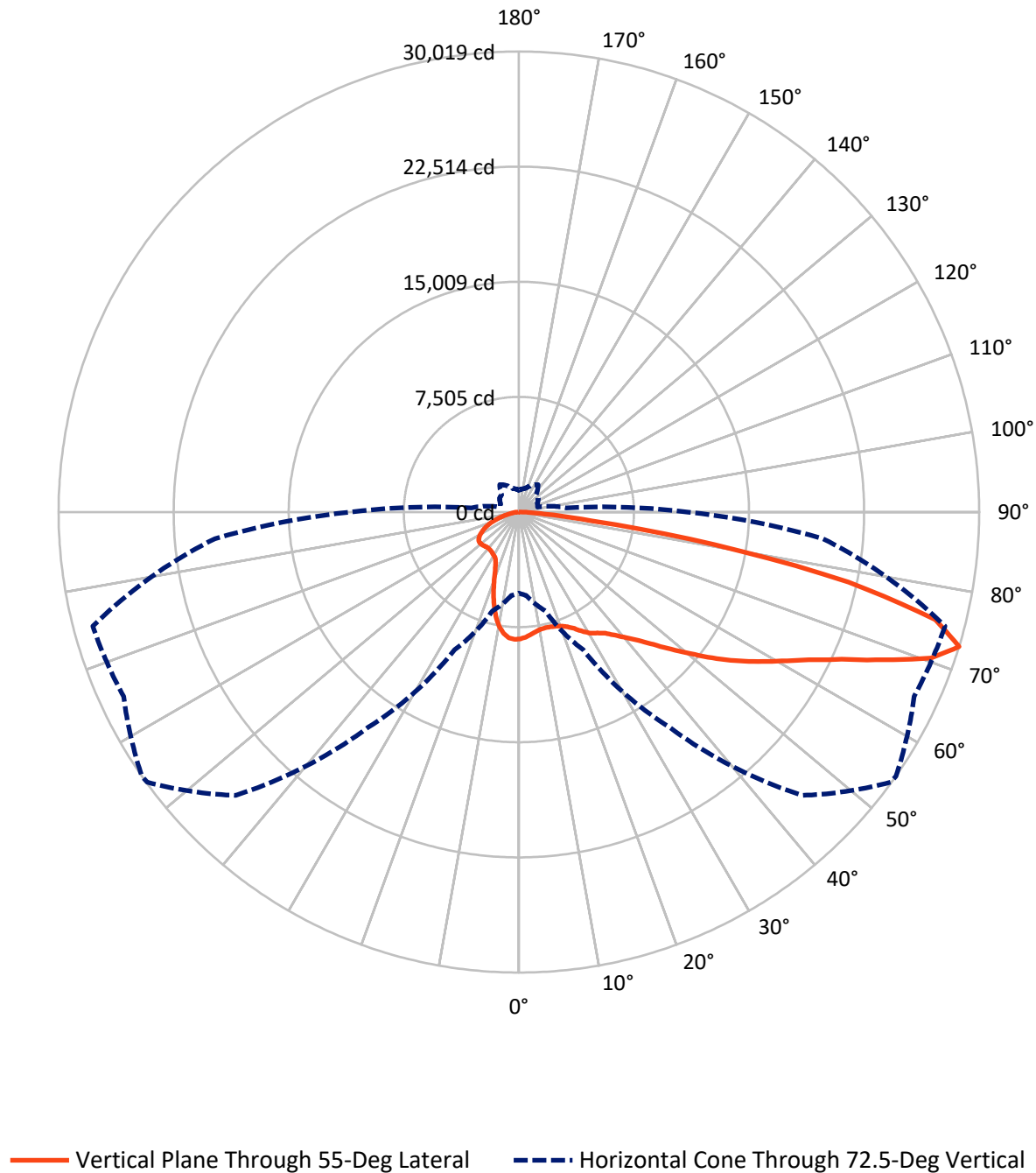
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type IV - Medium - N/A

REPORT NUMBER: P317701
CATALOG NUMBER: GAN-SA7D-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317701

CATALOG NUMBER: GAN-SA7D-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8722.2	0.0	8722.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38204.8	0.0	38204.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	46927.0	0.0	46927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.0	1.6
10°-20°	1994.0	4.2
20°-30°	3287.6	7.0
30°-40°	4863.2	10.4
40°-50°	6788.1	14.5
50°-60°	8838.3	18.8
60°-70°	10862.0	23.1
70°-80°	8514.5	18.1
80°-90°	1030.4	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°	46927.0	100.0
0°-180°	46927.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317701

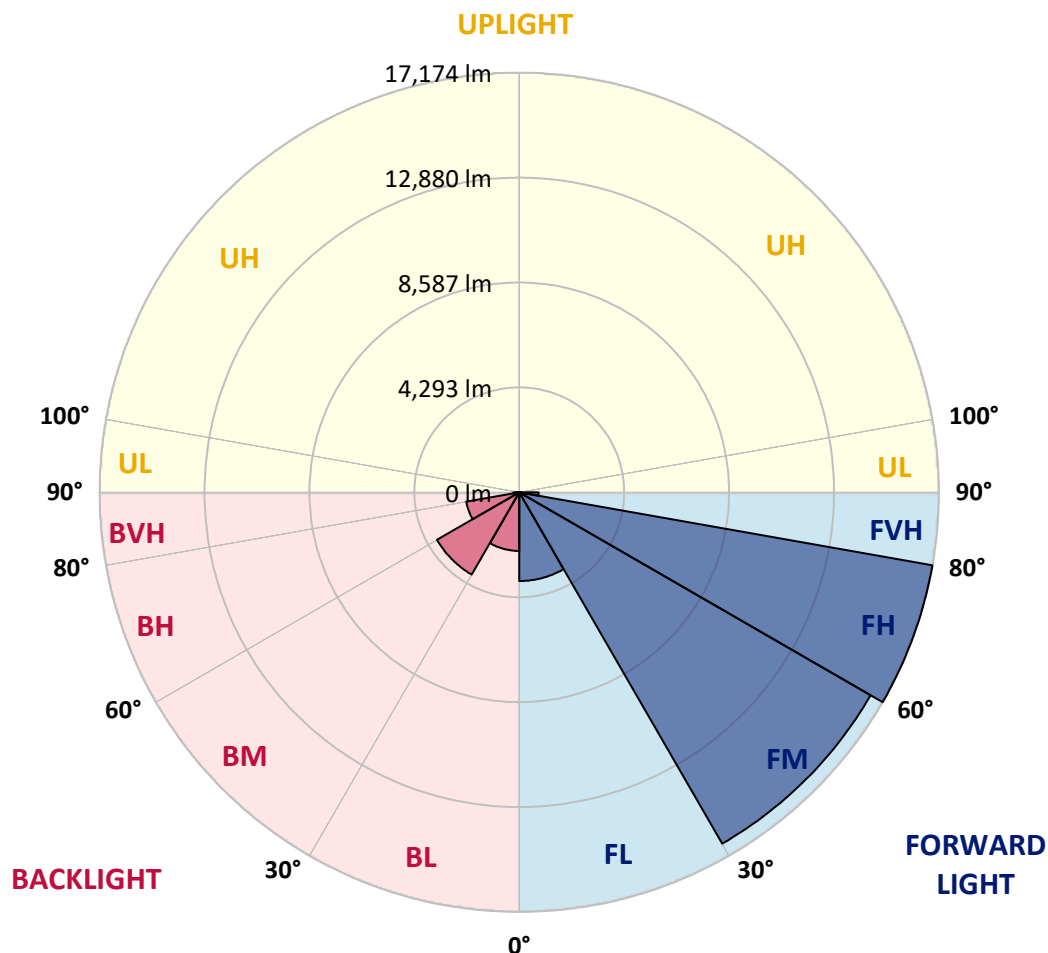
CATALOG NUMBER: GAN-SA7D-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3630.8	7.7			
FM	(30°-60°)	16603.7	35.4			
FH	(60°-80°)	17173.7	36.6			G5
FVH	(80°-90°)	796.6	1.7			G5
BL	(0°-30°)	2399.8	5.1	B3/2500		
BM	(30°-60°)	3885.9	8.3	B3/5000		
BH	(60°-80°)	2202.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	233.7	0.5			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 IV Medium





REPORT NUMBER: P317701

CATALOG NUMBER: GAN-SA7D-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9
2.5°	8007.5	7988.4	8012.2	8045.5	8082.0	8131.1	8159.6	8172.3	8221.4	8240.5	8281.7
5°	7636.6	7627.1	7666.7	7723.7	7804.6	7918.7	8010.6	8028.1	8158.0	8250.0	8334.0
7.5°	7367.1	7367.1	7413.1	7481.2	7571.6	7725.3	7855.3	7879.1	8099.4	8297.5	8452.8
10°	7153.1	7161.1	7215.0	7295.8	7402.0	7565.2	7738.0	7765.0	8083.5	8408.5	8655.7
12.5°	7010.5	7029.5	7078.6	7151.6	7283.1	7481.2	7700.0	7736.4	8116.8	8567.0	8899.8
15°	7100.8	7132.5	7137.3	7167.4	7240.3	7455.9	7722.2	7760.2	8188.2	8728.6	9177.2
17.5°	7497.1	7508.2	7459.0	7395.6	7360.8	7498.7	7788.7	7828.4	8273.7	8888.7	9443.5
20°	8099.4	8093.1	7986.9	7815.7	7638.2	7660.3	7898.1	7939.3	8389.4	9029.8	9709.8
22.5°	8860.2	8838.0	8674.8	8359.3	8056.6	7929.8	8089.9	8124.8	8563.8	9231.1	9995.1
25°	9782.7	9733.5	9518.0	9094.8	8649.4	8322.9	8378.4	8411.6	8817.4	9456.2	10256.6
27.5°	10755.9	10706.7	10432.5	9920.6	9327.8	8819.0	8776.2	8804.7	9105.9	9622.6	10450.0
30°	11773.4	11721.1	11470.7	10896.9	10047.4	9332.5	9147.1	9158.2	9308.8	9712.9	10608.5
32.5°	12795.8	12746.6	12466.1	11800.4	10828.8	9884.1	9414.9	9400.7	9430.8	9806.4	10787.6
35°	13832.4	13851.4	13523.3	12786.3	11694.2	10497.5	9732.0	9701.8	9635.3	9998.2	11041.2
37.5°	14941.9	14929.2	14504.4	13734.1	12599.2	11163.2	10186.8	10182.1	9952.3	10361.2	11439.0
40°	15683.7	15691.6	15433.2	14704.1	13513.8	11900.2	10770.1	10759.0	10457.9	10904.9	11960.5
42.5°	15973.7	16026.0	16092.6	15629.8	14471.1	12754.6	11465.9	11450.1	11163.2	11684.7	12573.9
45°	15994.3	16098.9	16511.0	16452.4	15441.2	13732.5	12355.1	12310.8	12104.7	12721.3	13306.1
47.5°	15816.8	15924.6	16609.3	16942.2	16308.1	14764.4	13394.9	13360.0	13182.5	14017.8	14098.6
50°	15428.5	15531.5	16406.4	17181.5	17021.4	15756.6	14593.2	14501.2	14406.1	15515.6	15005.3
52.5°	14701.0	14899.1	16135.4	17238.5	17447.8	16637.8	15853.3	15793.0	15845.3	17095.9	15913.5
55°	12978.0	13199.9	15436.4	17191.0	17763.2	17378.0	17113.3	17110.2	17381.2	18753.8	16888.3
57.5°	12012.8	12169.7	14013.1	17110.2	18137.2	18113.5	18360.7	18390.9	18918.7	20559.1	17909.0
60°	11467.5	11632.4	13291.9	16810.6	18717.4	19064.5	19633.5	19693.7	20481.5	22557.8	19137.4
62.5°	10971.4	11152.1	12844.9	16200.4	19400.5	20424.4	21158.3	21212.2	22136.2	24612.0	20324.6
65°	10123.4	10327.9	12190.3	15799.4	20021.8	22198.0	23096.7	23133.2	24036.7	26764.4	21232.8
67.5°	8925.2	9112.2	10955.6	14913.3	20481.5	24352.1	25674.0	25694.6	25921.2	28284.5	21697.2
70°	7525.6	7596.9	9196.2	13084.2	19937.8	26366.6	28498.4	28503.2	27639.4	29257.7	21621.1
72.5°	5287.6	5455.6	6676.1	9904.7	17133.9	26120.9	29964.6	30018.5	28438.2	28766.3	19893.4
75°	3242.9	3420.4	4187.6	6002.4	10870.0	20543.3	27685.3	28059.4	26940.4	25648.6	16251.1
77.5°	2168.3	2234.9	2732.6	3499.7	4924.6	11819.4	21285.1	21988.8	22380.3	18704.7	10392.9
80°	1209.4	1336.2	1811.7	2174.6	2190.5	4696.4	12762.5	12927.3	12451.8	7448.0	3206.5
82.5°	640.3	710.1	1209.4	1277.5	1195.1	1572.3	4756.6	4761.4	3978.4	1997.1	952.6
85°	496.1	554.8	829.0	779.8	610.2	697.4	1569.2	1654.7	1353.6	817.9	310.7
87.5°	247.3	307.5	562.7	494.5	239.3	199.7	561.1	599.1	534.1	320.2	112.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317701

CATALOG NUMBER: GAN-SA7D-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9	8276.9
2.5°	8297.5	8311.8	8329.2	8310.2	8303.9	8278.5	8235.7	8226.2	8204.0	8205.6	8218.3
5°	8370.4	8394.2	8384.7	8311.8	8224.6	8102.6	7975.8	7868.0	7796.7	7791.9	7787.1
7.5°	8509.9	8525.8	8451.3	8243.6	7999.5	7717.4	7451.1	7218.1	7077.1	7042.2	7034.3
10°	8728.6	8725.5	8521.0	8102.6	7616.0	7111.9	6684.0	6360.6	6172.0	6116.5	6102.3
12.5°	8972.7	8936.3	8544.8	7845.8	7073.9	6374.9	5832.8	5473.0	5276.5	5213.1	5197.2
15°	9224.7	9134.4	8486.1	7462.2	6408.2	5580.8	5011.8	4678.9	4572.7	4537.9	4531.5
17.5°	9459.3	9285.0	8318.1	6942.3	5649.0	4789.9	4346.1	4213.0	4238.3	4284.3	4285.9
20°	9689.2	9386.4	8048.7	6286.1	4848.5	4138.5	3987.9	4086.2	4206.6	4300.1	4312.8
22.5°	9915.8	9457.7	7701.6	5528.5	4132.1	3772.3	3878.5	4057.6	4195.5	4297.0	4314.4
25°	10106.0	9475.2	7222.9	4720.2	3634.4	3634.4	3826.2	3995.8	4132.1	4232.0	4249.4
27.5°	10175.8	9357.9	6547.7	3972.0	3384.0	3571.0	3753.3	3894.4	4010.1	4116.3	4135.3
30°	10202.7	9140.7	5767.8	3371.3	3281.0	3502.9	3655.0	3775.5	3884.9	3984.7	4002.1
32.5°	10207.5	8879.2	4940.5	3030.5	3209.6	3431.5	3533.0	3639.2	3756.5	3796.1	3802.4
35°	10237.6	8570.1	4068.7	2856.2	3143.1	3365.0	3445.8	3521.9	3331.7	3346.0	3358.6
37.5°	10324.7	8264.2	3339.6	2757.9	3100.3	3330.1	3426.8	3151.0	3002.0	2967.1	2962.4
40°	10488.0	7937.7	2799.1	2678.7	3084.4	3347.5	3304.7	2941.8	2685.0	2493.2	2464.7
42.5°	10714.7	7585.8	2453.6	2626.4	3095.5	3431.5	3135.1	2740.5	2314.1	2190.5	2174.6
45°	10969.8	7216.5	2266.6	2589.9	3133.6	3496.5	3100.3	2472.6	2141.3	2047.8	2039.9
47.5°	11217.1	6764.8	2169.9	2574.1	3185.9	3444.2	2952.9	2390.2	2058.9	2009.8	2014.5
50°	11500.8	6357.5	2111.2	2556.6	3231.8	3410.9	2786.4	2347.4	2027.2	2087.5	2150.9
52.5°	11740.2	5935.9	2058.9	2521.7	3249.3	3352.3	2743.6	2355.3	2027.2	2142.9	2203.2
55°	12023.9	5617.3	1998.7	2448.8	3216.0	3185.9	2713.5	2402.9	2051.0	1978.1	1984.4
57.5°	12390.0	5512.7	1932.1	2334.7	3105.0	2943.4	2699.3	2448.8	2036.7	1990.8	2006.6
60°	12897.2	5623.6	1905.2	2185.7	2932.3	2753.2	2700.9	2425.1	1936.9	1857.6	1859.2
62.5°	13380.6	5747.2	1903.6	2092.2	2719.9	2583.6	2664.4	2347.4	1886.2	1840.2	1857.6
65°	13539.1	5622.0	1827.5	1987.6	2480.5	2380.7	2597.8	2265.0	1848.1	1778.4	1775.2
67.5°	13326.7	5233.7	1673.8	1818.0	2206.3	2144.5	2510.7	2166.7	1787.9	1730.8	1721.3
70°	12695.9	4366.7	1483.6	1594.5	1894.1	1878.2	2372.8	2052.6	1707.1	1657.9	1616.7
72.5°	10998.4	3111.4	1250.6	1326.7	1542.2	1592.9	2182.6	1903.6	1592.9	1486.7	1423.3
75°	9033.0	2303.0	1027.1	1042.9	1171.3	1309.2	1921.0	1729.2	1458.2	1277.5	1228.4
77.5°	5531.7	1409.1	817.9	824.2	840.1	1044.5	1581.8	1534.3	1287.0	1065.1	1030.3
80°	1791.1	768.7	591.2	621.3	573.8	765.6	1223.6	1306.0	1104.8	890.8	852.7
82.5°	681.6	448.6	399.4	420.0	397.8	513.5	892.4	1046.1	905.0	732.3	596.0
85°	329.7	253.6	236.2	264.7	245.7	263.1	570.6	770.3	686.3	477.1	443.8
87.5°	117.3	112.5	90.3	122.0	104.6	93.5	174.4	388.3	453.3	328.1	293.2
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)