

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: P317371

Luminaire Tested: **GAN-SA7C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43589 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 391
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

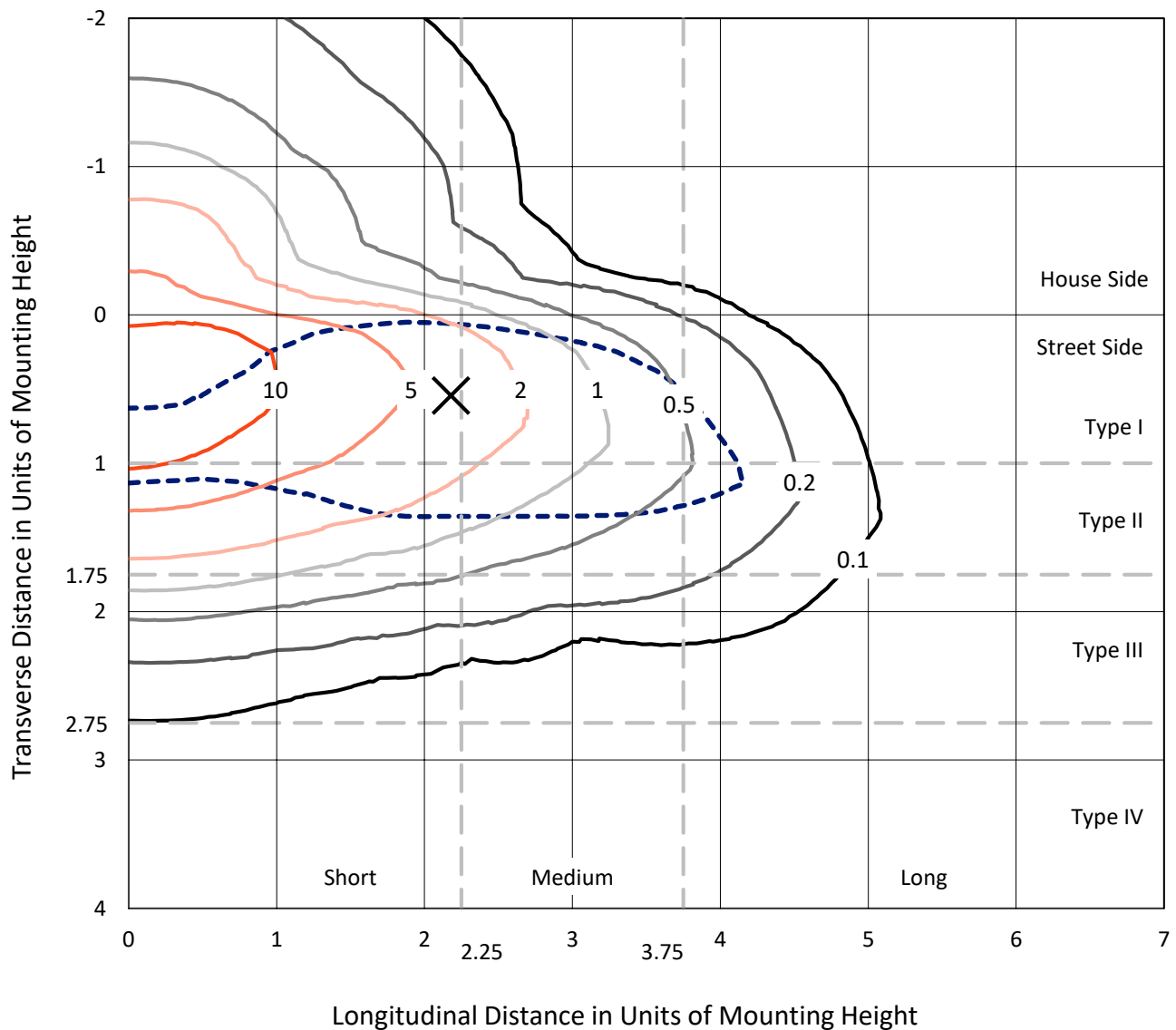


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Iso-Footcandle Lines of Horizontal Illumination

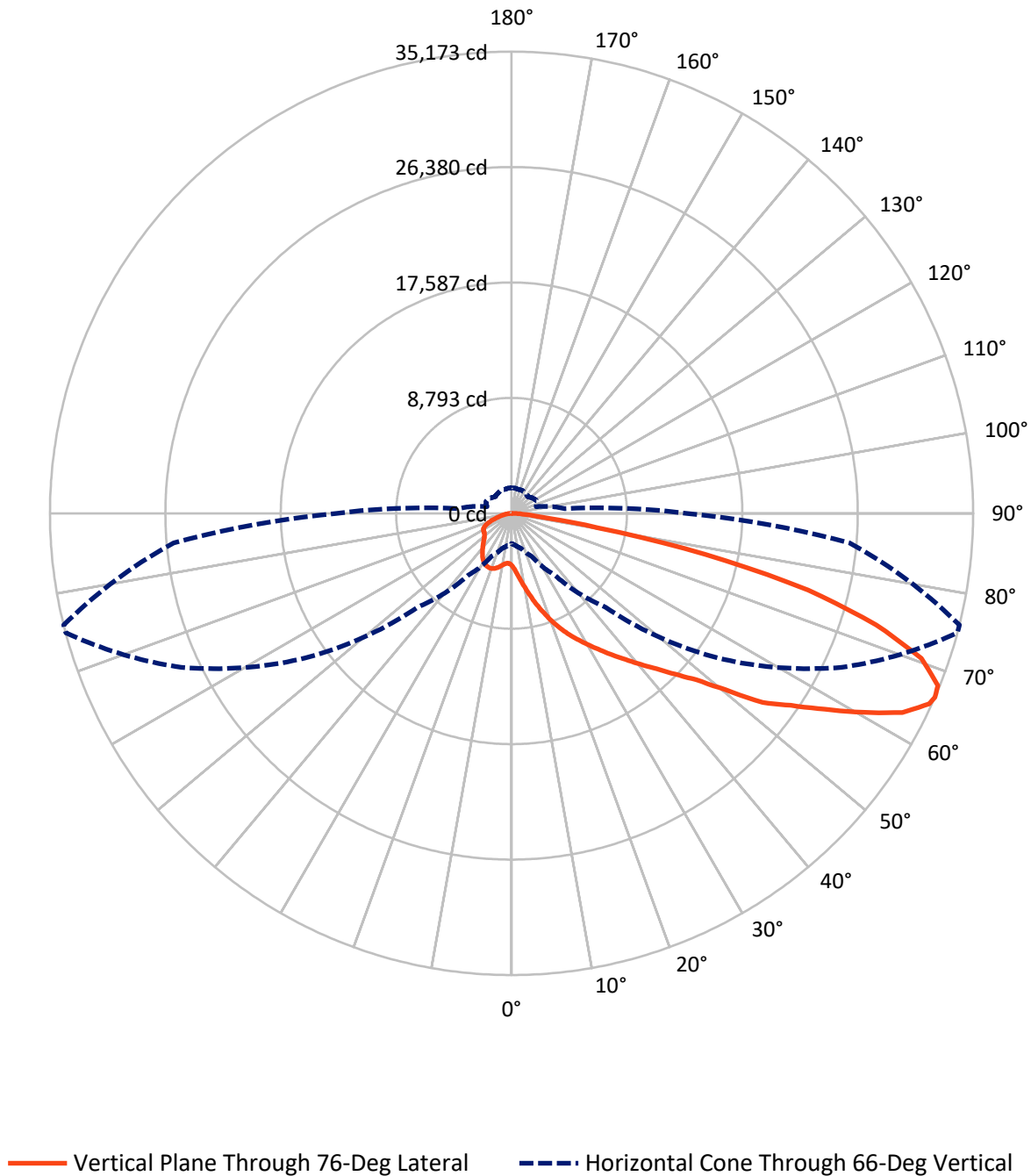
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7334.5	0.0	7334.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36254.5	0.0	36254.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	43589.0	0.0	43589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.4	1.1
10°-20°	1900.9	4.4
20°-30°	3693.9	8.5
30°-40°	6029.3	13.8
40°-50°	8237.4	18.9
50°-60°	9595.0	22.0
60°-70°	8602.0	19.7
70°-80°	4347.1	10.0
80°-90°	702.0	1.6
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°	43589.0	100.0
0°-180°	43589.0	100.0

Coefficient of Utilization



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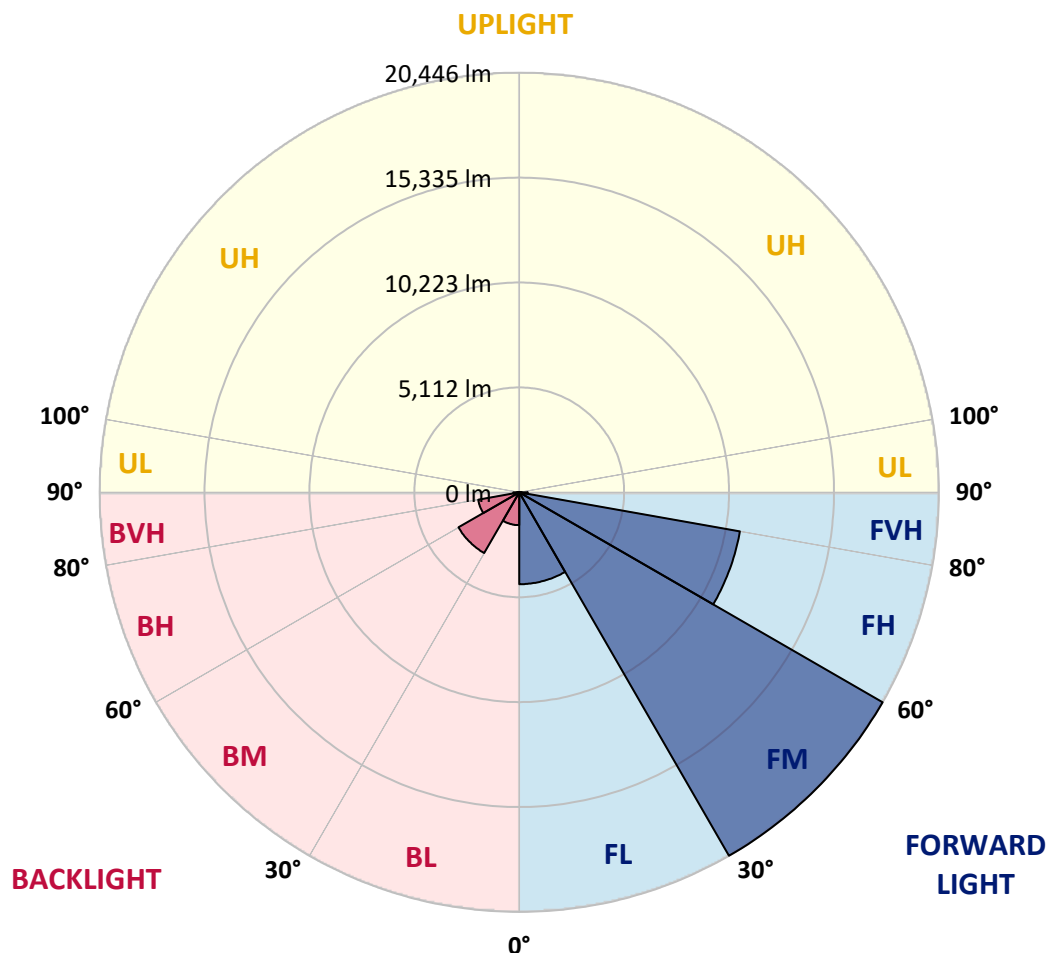
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4476.5	10.3			
FM	(30°-60°)	20446.3	46.9			
FH	(60°-80°)	10917.2	25.0			G4/12000
FVH	(80°-90°)	414.6	1.0			G3/500
BL	(0°-30°)	1599.7	3.7	B3/2500		
BM	(30°-60°)	3415.4	7.8	B3/5000		
BH	(60°-80°)	2032.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	287.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7
2.5°	5284.4	5204.5	5197.1	5080.1	5053.5	4830.1	4665.8	4494.1	4298.8	4260.3	4106.4
5°	6787.8	6780.4	6678.3	6487.4	6338.0	5956.2	5578.8	5179.3	4741.3	4670.2	4324.0
7.5°	8140.4	8128.5	8050.1	7844.4	7628.4	7159.3	6620.6	6008.0	5297.7	5192.6	4618.5
10°	9167.4	9162.9	9136.3	8985.3	8801.8	8352.0	7757.1	6921.0	5944.4	5800.8	4986.9
12.5°	9960.5	9969.4	9987.2	9933.9	9846.6	9463.3	8853.6	7888.8	6633.9	6491.9	5396.8
15°	10497.7	10524.3	10616.1	10691.5	10737.4	10502.1	9911.7	8878.8	7406.4	7236.2	5851.1
17.5°	10768.5	10798.1	10956.4	11184.3	11394.5	11370.8	10901.7	9822.9	8147.8	7983.5	6339.5
20°	11002.3	11024.5	11202.1	11475.8	11847.3	12011.5	11748.1	10731.5	8960.2	8764.8	6857.4
22.5°	11680.1	11708.2	11761.4	11916.8	12245.3	12547.2	12420.0	11591.3	9704.5	9522.5	7348.7
25°	12988.2	13022.2	12906.8	12775.1	12837.3	13047.4	13071.1	12375.6	10459.2	10253.5	7877.0
27.5°	14564.2	14613.0	14416.2	14077.3	13781.4	13700.0	13671.9	13017.8	11179.9	10941.6	8399.3
30°	16107.6	16192.0	15936.0	15496.5	14953.4	14571.6	14288.9	13646.7	11890.2	11662.3	8892.1
32.5°	17615.5	17581.5	17210.1	16780.9	16144.6	15666.6	14983.0	14321.5	12689.3	12427.4	9381.9
35°	18648.4	18660.3	18315.5	17806.4	17199.7	16832.7	15912.3	15049.6	13504.6	13263.4	9938.3
37.5°	19527.4	19472.7	19082.0	18607.0	18084.6	17927.8	16999.9	15851.6	14388.1	14124.7	10530.2
40°	19820.4	19756.8	19500.8	19159.0	18740.2	18726.9	18200.0	16760.2	15386.9	15126.5	11197.6
42.5°	19642.8	19561.5	19456.4	19363.2	19234.4	19293.6	19327.7	17825.7	16485.0	16193.4	11970.1
45°	18987.3	18864.5	18938.5	19141.2	19420.9	19755.3	20345.8	19005.1	17714.7	17470.5	12877.2
47.5°	17979.6	17868.6	18099.4	18533.0	19293.6	20140.1	21309.1	20307.3	19182.6	18939.9	14169.1
50°	16561.9	16594.5	16924.5	17713.2	18863.0	20317.6	22495.9	22031.2	21316.5	21090.1	15931.5
52.5°	14235.7	14241.6	15170.9	16465.7	18099.4	20225.9	23154.4	24234.7	24230.2	23956.5	17609.6
55°	12075.2	12206.9	12942.3	14663.3	16862.3	19858.9	23614.6	25306.0	26143.6	25822.5	19173.8
57.5°	9965.0	10041.9	10738.9	12467.3	15096.9	18880.8	24086.7	26592.0	28348.5	28145.8	21118.2
60°	7564.7	7683.1	8403.8	10000.5	12838.7	17144.9	24131.1	27934.2	30984.0	30779.8	23289.1
62.5°	4910.0	5114.2	5789.0	7285.0	10107.0	14648.5	23101.1	28811.7	33481.9	33409.4	25215.8
65°	2822.0	2975.9	3445.0	4599.2	6972.8	11514.3	20652.1	28474.3	35019.4	34978.0	25936.4
66°	2305.5	2401.7	2761.3	3594.4	5753.5	10111.5	19228.5	27762.5	35171.9	35173.3	25853.6
67.5°	1843.8	1886.7	2048.0	2573.4	4245.5	8014.6	16684.7	26192.4	34982.4	35034.2	25319.4
70°	1525.7	1547.9	1598.2	1725.4	2317.4	4833.0	11842.8	22112.6	33080.9	33120.9	23234.3
72.5°	1368.8	1382.1	1401.4	1419.1	1635.2	2700.6	7233.3	17689.5	29004.1	29055.8	20057.2
75°	1240.1	1247.5	1244.5	1246.0	1371.8	1721.0	3738.0	13207.2	23451.9	23348.3	15364.8
77.5°	1089.1	1096.5	1081.7	1084.7	1213.4	1322.9	1860.1	9245.8	15826.4	15095.4	8656.8
80°	920.4	926.4	920.4	930.8	1056.6	998.9	1081.7	5201.5	6998.0	6619.1	3078.0
82.5°	695.5	720.7	738.4	779.9	870.1	710.3	723.6	2025.8	2130.9	2028.8	944.1
85°	304.8	371.4	556.4	596.4	654.1	426.2	475.0	825.7	867.2	840.5	343.3
87.5°	79.9	87.3	275.2	346.3	362.6	192.4	247.1	375.9	396.6	375.9	113.9
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°	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7	3980.7
2.5°	4025.1	3952.5	3822.3	3706.9	3619.6	3560.4	3501.2	3471.6	3453.9	3436.1	3439.1
5°	4153.8	4007.3	3783.8	3625.5	3536.7	3480.5	3450.9	3439.1	3431.7	3413.9	3413.9
7.5°	4347.6	4140.5	3832.7	3669.9	3600.4	3557.4	3539.7	3533.8	3524.9	3504.2	3507.1
10°	4591.8	4301.8	3934.8	3776.4	3712.8	3665.5	3640.3	3631.4	3615.1	3591.5	3594.4
12.5°	4878.9	4501.5	4069.4	3903.7	3826.8	3763.1	3721.7	3696.5	3668.4	3637.3	3638.8
15°	5192.6	4719.1	4214.5	4017.7	3912.6	3823.8	3757.2	3714.3	3669.9	3631.4	3629.9
17.5°	5510.8	4929.2	4325.5	4079.8	3937.7	3820.8	3730.6	3664.0	3609.2	3561.9	3557.4
20°	5854.1	5118.6	4387.6	4073.9	3890.4	3751.3	3631.4	3548.6	3487.9	3440.5	3433.1
22.5°	6203.3	5296.2	4398.0	4013.2	3785.3	3615.1	3489.4	3397.6	3335.5	3286.6	3268.9
25°	6523.0	5433.8	4355.0	3896.3	3638.8	3455.3	3332.5	3239.3	3189.0	3131.3	3113.5
27.5°	6814.5	5530.0	4269.2	3746.9	3474.6	3294.0	3178.6	3098.7	3043.9	2999.6	2984.8
30°	7076.4	5581.8	4128.6	3569.3	3305.9	3141.6	3043.9	2989.2	2941.8	2885.6	2875.2
32.5°	7325.0	5581.8	3948.1	3375.4	3138.7	3007.0	2949.2	2915.2	2861.9	2807.2	2792.4
35°	7573.6	5547.8	3735.0	3172.7	2984.8	2910.8	2907.8	2867.9	2786.5	2712.5	2693.2
37.5°	7835.5	5478.2	3495.3	2983.3	2859.0	2867.9	2893.0	2804.2	2688.8	2583.7	2555.6
40°	8131.5	5382.0	3246.7	2819.0	2753.9	2848.6	2853.1	2712.5	2487.5	2391.4	2366.2
42.5°	8479.2	5285.8	3015.8	2674.0	2671.0	2790.9	2777.6	2514.2	2379.5	2330.7	2317.4
45°	8936.5	5231.1	2796.8	2536.4	2605.9	2697.7	2648.8	2404.7	2348.4	2320.3	2308.5
47.5°	9657.2	5259.2	2595.6	2426.9	2540.8	2604.4	2409.1	2360.3	2320.3	2286.3	2274.5
50°	10559.8	5242.9	2432.8	2351.4	2466.8	2506.8	2301.1	2302.6	2281.8	2243.4	2225.6
52.5°	11239.1	5115.7	2327.7	2308.5	2401.7	2333.6	2233.0	2246.3	2236.0	2179.7	2160.5
55°	11894.6	5006.2	2274.5	2292.2	2354.4	2117.6	2153.1	2185.7	2175.3	2120.6	2111.7
57.5°	12710.0	4985.4	2241.9	2296.6	2314.4	2009.6	2076.2	2119.1	2111.7	2088.0	2083.6
60°	13708.9	4991.4	2212.3	2304.0	2270.0	1929.7	2003.6	2058.4	2062.8	2058.4	2055.4
62.5°	14257.9	4830.1	2138.3	2283.3	2191.6	1860.1	1928.2	2008.1	2009.6	2018.4	2017.0
65°	13791.7	4347.6	2000.7	2210.8	2059.9	1802.4	1863.1	1950.4	1928.2	1968.1	1968.1
66°	13338.9	4069.4	1932.6	2163.5	2003.6	1780.2	1842.3	1920.8	1892.7	1947.4	1947.4
67.5°	12414.0	3600.4	1809.8	2062.8	1923.7	1749.1	1818.7	1871.9	1833.5	1914.9	1908.9
70°	10724.1	2785.0	1562.7	1835.0	1792.0	1703.2	1786.1	1774.3	1718.0	1842.3	1818.7
72.5°	9041.6	2116.1	1254.9	1536.0	1592.3	1645.5	1740.2	1650.0	1578.9	1666.3	1614.5
75°	7015.7	1590.8	991.5	1194.2	1345.1	1555.3	1685.5	1506.4	1404.3	1395.5	1367.3
77.5°	3792.7	1092.1	785.8	911.6	1068.4	1442.8	1648.5	1352.5	1198.6	1163.1	1140.9
80°	1502.0	710.3	571.2	691.1	747.3	1280.0	1559.7	1173.5	988.5	953.0	919.0
82.5°	620.0	420.3	368.5	463.2	486.9	1095.1	1399.9	961.9	763.6	1056.6	1121.7
85°	266.4	230.8	219.0	239.7	275.2	768.0	1114.3	734.0	824.2	735.5	584.5
87.5°	79.9	97.7	93.2	91.7	100.6	183.5	593.4	408.4	605.2	229.4	171.7
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)