

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: P320891

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42923 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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



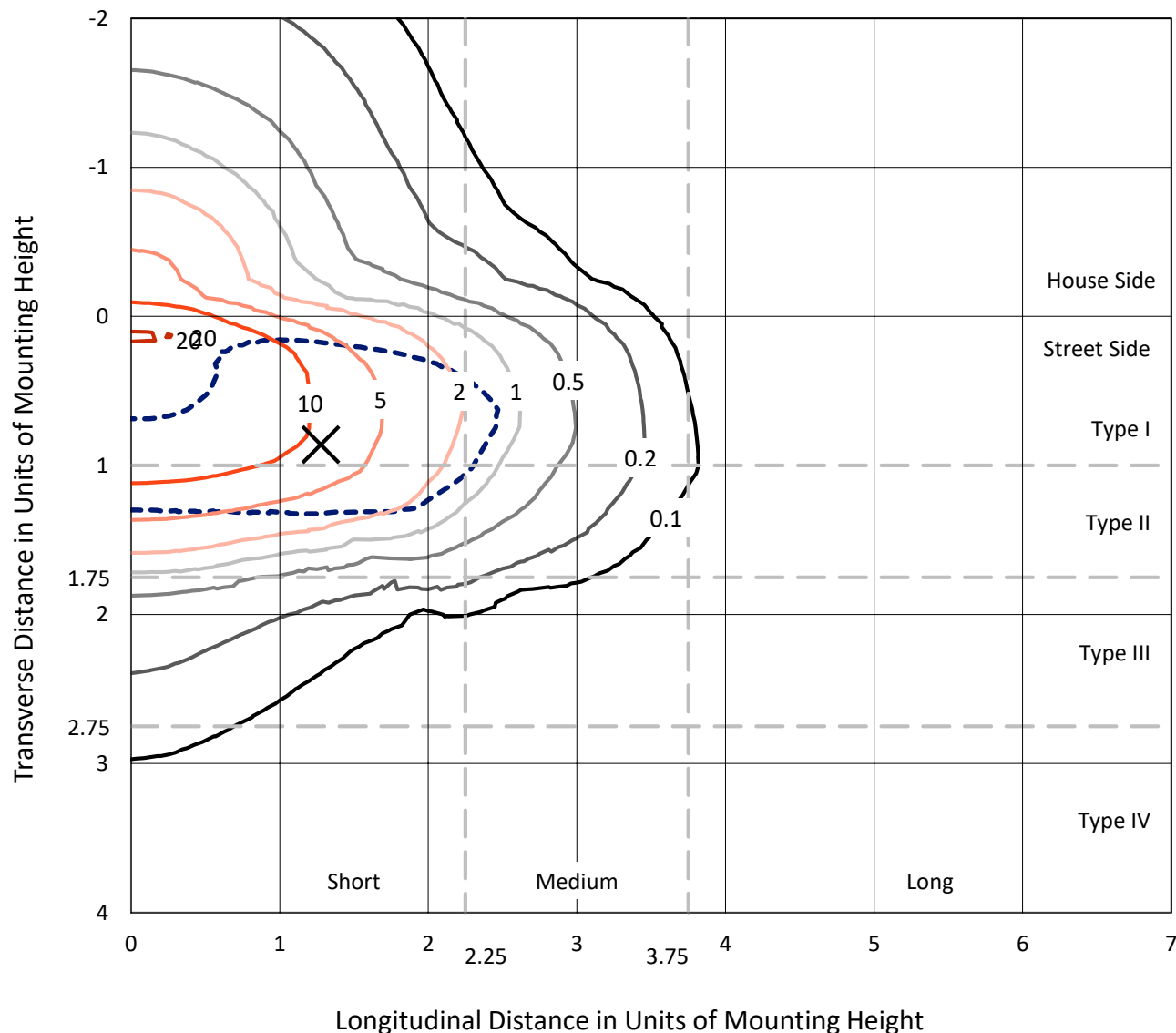
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

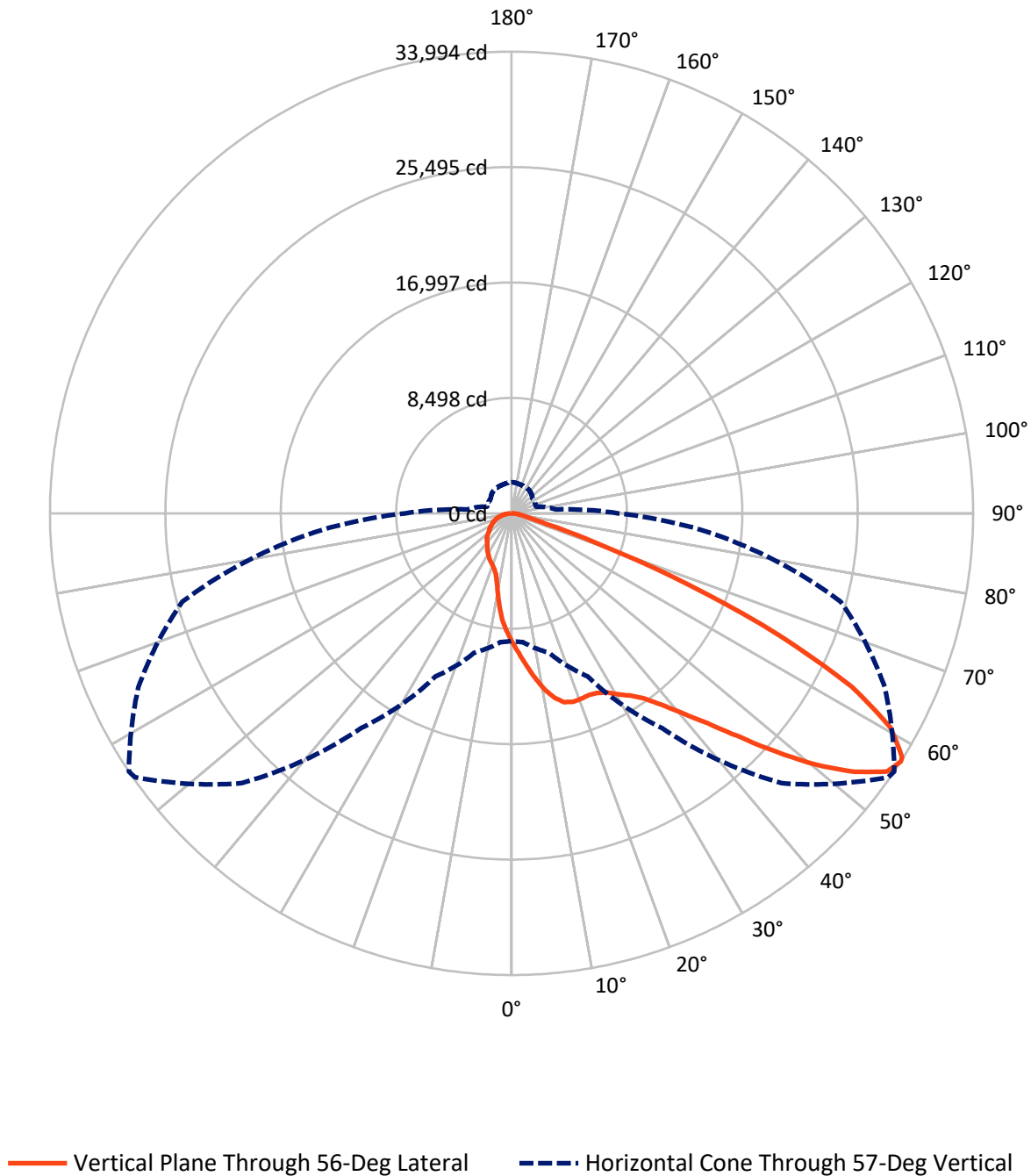


Based on 25 foot mounting height. Maximum calculated value = 21.1 fc

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	7399.0	0.0	7399.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	35524.0	0.0	35524.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	42923.0	0.0	42923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.4	2.1
10°-20°	2571.2	6.0
20°-30°	4188.0	9.8
30°-40°	6260.5	14.6
40°-50°	9495.9	22.1
50°-60°	10643.2	24.8
60°-70°	6286.3	14.6
70°-80°	2059.6	4.8
80°-90°	508.9	1.2
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°	42923.0	100.0
0°-180°	42923.0	100.0

Coefficient of Utilization



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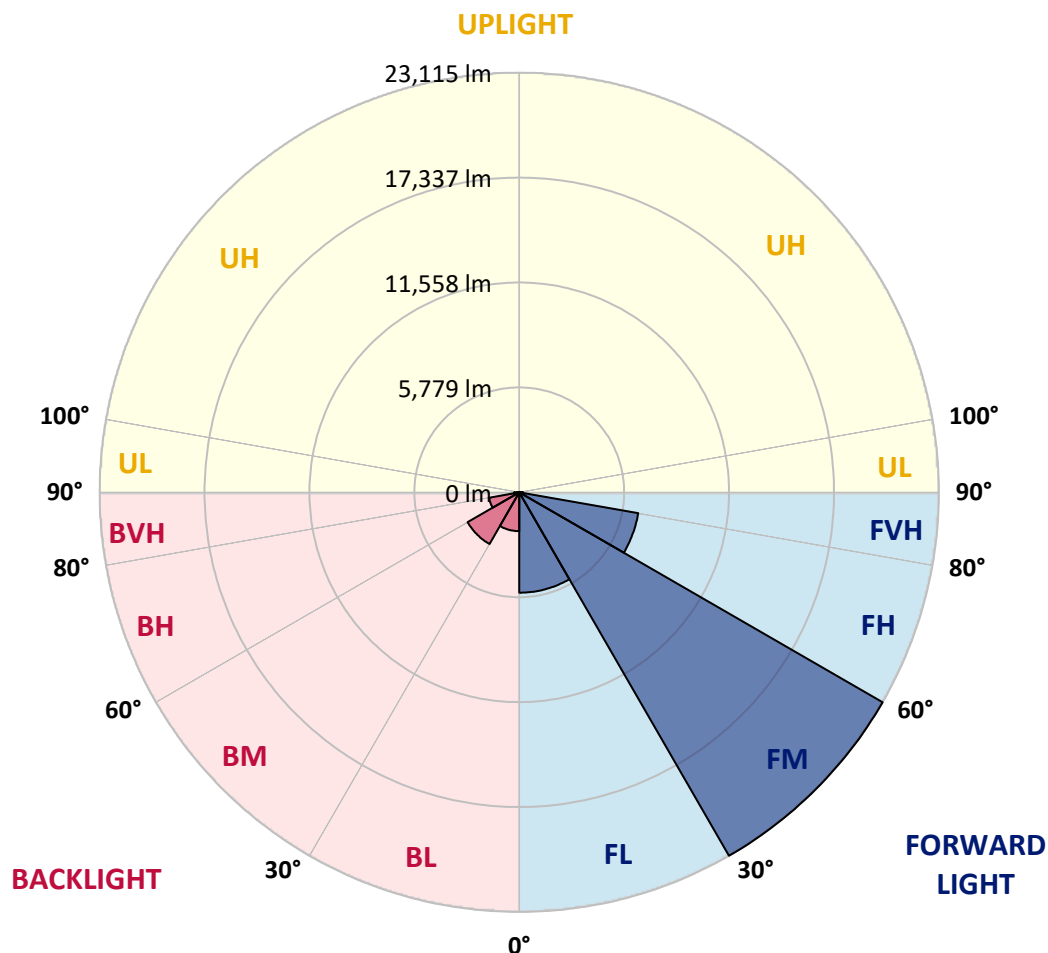
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5529.1	12.9			
FM	(30°-60°)	23115.5	53.9			
FH	(60°-80°)	6655.3	15.5			G3/7500
FVH	(80°-90°)	224.1	0.5			G2/225
BL	(0°-30°)	2139.4	5.0	B3/2500		
BM	(30°-60°)	3284.2	7.7	B3/5000		
BH	(60°-80°)	1690.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	284.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4
2.5°	10932.0	11032.3	10988.1	10834.7	10716.7	10550.0	10364.1	10308.1	10111.9	9892.1	9628.0
5°	12662.3	12612.2	12539.9	12300.9	12048.7	11755.2	11289.0	11215.3	10778.6	10281.5	9756.4
7.5°	13647.7	13643.3	13600.5	13460.4	13230.3	12846.7	12284.7	12197.7	11538.3	10738.8	9924.5
10°	13504.6	13494.3	13565.1	13711.1	13780.5	13700.8	13227.3	13140.3	12330.4	11244.8	10119.3
12.5°	12691.8	12697.7	12811.3	13118.2	13535.6	14037.1	13960.4	13917.7	13152.1	11817.1	10355.3
15°	12059.0	12072.3	12162.3	12429.3	12922.0	13832.1	14405.9	14420.7	13947.2	12448.5	10631.1
17.5°	11781.7	11809.7	11851.0	12038.4	12489.8	13423.5	14512.1	14591.8	14643.4	13103.4	10896.6
20°	11870.2	11896.8	11908.6	12028.0	12398.3	13175.7	14438.4	14581.5	15177.4	13720.0	11162.2
22.5°	12267.0	12283.2	12290.6	12321.6	12609.2	13246.5	14389.7	14540.2	15563.9	14273.2	11362.8
25°	12924.9	12913.1	12865.9	12826.1	13019.3	13526.8	14501.8	14644.9	15878.1	14774.7	11494.1
27.5°	13712.6	13697.9	13606.4	13497.3	13607.9	13963.4	14824.9	14938.4	16159.8	15243.8	11560.4
30°	14658.2	14619.8	14447.2	14317.4	14360.2	14618.3	15357.4	15460.6	16595.0	15776.3	11625.3
32.5°	15751.2	15709.9	15460.6	15245.3	15245.3	15460.6	15906.1	15991.7	16963.8	16378.1	11730.1
35°	17120.1	17068.5	16744.0	16382.6	16280.8	16389.9	16654.0	16714.5	17627.6	17136.4	11920.4
37.5°	18733.9	18664.6	18244.2	17760.3	17537.6	17531.7	17722.0	17845.9	18688.2	18132.1	12243.4
40°	20352.1	20303.4	19936.1	19555.5	19118.9	18978.8	19272.3	19310.7	20074.8	19368.2	12656.4
42.5°	21603.0	21594.1	21526.3	21576.4	21129.5	20846.3	21076.4	21107.4	21768.2	20706.1	13096.0
45°	22263.8	22278.6	22607.5	23336.2	23501.5	23294.9	23408.5	23417.4	23703.5	22055.8	13498.7
47.5°	21734.3	21811.0	22642.9	24272.9	25625.6	26311.5	26122.7	26231.9	25579.9	23215.3	13814.4
50°	19670.6	19765.0	21181.1	23855.5	26616.9	29230.8	29131.9	29106.9	27093.3	24064.9	13985.5
52.5°	17114.2	17188.0	18356.3	21685.6	25889.7	30844.6	31751.7	31621.9	28438.6	24700.7	14018.0
55°	13221.4	13336.5	14456.1	17354.7	22948.3	30228.0	33678.2	33561.7	29664.5	25034.1	13979.6
57°	9399.4	9520.4	10632.6	13245.0	19304.8	28093.5	33870.0	33993.9	30326.8	25090.1	14022.4
57.5°	8387.5	8511.4	9613.3	12150.5	18168.9	27322.0	33704.8	33911.3	30446.3	25081.3	14046.0
60°	4223.2	4270.4	4972.6	6782.6	11485.2	22088.3	31549.7	32082.2	30554.0	24647.6	14147.8
62.5°	2625.7	2591.8	2569.6	3124.3	5587.7	14647.8	27102.2	28127.4	28493.2	23597.3	13901.4
65°	2308.5	2245.1	2001.7	1957.5	2467.9	7114.5	20409.6	21685.6	24090.0	21942.3	13314.3
67.5°	2168.4	2106.5	1832.1	1666.9	1668.3	2820.4	12671.2	14108.0	18766.4	19144.0	11929.2
70°	2023.9	1967.8	1711.1	1516.4	1420.5	1562.1	5829.6	6919.7	12233.1	15047.6	9970.3
72.5°	1838.0	1799.6	1556.2	1355.6	1253.8	1169.8	2231.8	2636.0	7082.0	10106.0	6924.2
75°	1643.3	1607.9	1399.9	1208.1	1084.2	920.5	1256.8	1354.2	3597.8	5170.3	3409.0
77.5°	1429.4	1408.7	1245.0	1068.0	969.1	762.6	889.5	936.7	1543.0	2217.1	1709.7
80°	1137.3	1177.1	1088.6	951.4	860.0	610.7	629.9	660.8	898.3	1082.7	970.6
82.5°	740.5	809.8	852.6	773.0	708.1	480.9	452.9	466.1	585.6	660.8	421.9
85°	308.3	346.7	560.5	506.0	470.6	351.1	303.9	309.8	362.9	376.2	172.6
87.5°	137.2	146.0	246.3	231.6	199.1	121.0	129.8	141.6	193.2	182.9	66.4
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°	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4	9520.4
2.5°	9529.2	9405.3	9192.9	8958.3	8766.6	8613.2	8458.3	8352.1	8228.2	8161.8	8127.9
5°	9536.6	9293.2	8846.2	8387.5	7977.4	7602.7	7245.7	6971.4	6714.7	6576.0	6537.7
7.5°	9567.6	9201.7	8478.9	7723.7	6995.0	6329.7	5816.4	5494.8	5263.2	5159.9	5130.4
10°	9592.6	9094.1	8024.6	6906.5	5915.2	5241.1	4842.8	4662.8	4583.2	4569.9	4556.6
12.5°	9651.6	8983.4	7546.7	6053.9	5075.9	4609.7	4471.1	4459.3	4481.4	4513.8	4513.8
15°	9744.6	8874.3	7000.9	5322.2	4541.9	4378.1	4406.2	4471.1	4531.5	4581.7	4589.1
17.5°	9812.4	8740.0	6413.8	4736.6	4257.2	4301.4	4401.7	4493.2	4555.1	4603.8	4608.2
20°	9861.1	8532.0	5786.9	4289.6	4093.4	4230.6	4356.0	4437.1	4479.9	4528.6	4536.0
22.5°	9836.0	8253.2	5230.7	3969.5	3960.7	4127.4	4246.8	4344.2	4311.7	4264.5	4295.5
25°	9715.1	7869.7	4658.4	3730.6	3820.5	3988.7	4136.2	4071.3	3962.1	3941.5	3953.3
27.5°	9499.7	7380.0	4128.8	3509.3	3658.3	3860.4	3851.5	3786.6	3748.3	3721.7	3737.9
30°	9268.1	6848.9	3665.6	3316.0	3478.3	3645.0	3611.1	3609.6	3571.2	3528.5	3549.1
32.5°	9039.5	6314.9	3298.3	3156.7	3342.6	3364.7	3438.5	3460.6	3385.4	3295.4	3289.5
35°	8840.3	5810.5	3019.6	3012.2	3178.9	3181.8	3289.5	3258.5	3071.2	2978.2	2978.2
37.5°	8691.3	5307.4	2807.1	2882.4	2963.5	3040.2	3094.8	2966.4	2935.5	2883.8	2882.4
40°	8626.4	4864.9	2674.4	2783.5	2811.6	2908.9	2768.8	2818.9	2833.7	2807.1	2807.1
42.5°	8558.6	4479.9	2559.3	2708.3	2703.9	2690.6	2619.8	2684.7	2743.7	2745.2	2740.8
45°	8490.7	4148.0	2457.5	2547.5	2609.5	2466.4	2479.7	2549.0	2631.6	2661.1	2661.1
47.5°	8415.5	3885.4	2364.6	2377.9	2473.8	2377.9	2367.6	2420.7	2518.0	2565.2	2575.5
50°	8250.3	3649.4	2258.4	2228.9	2255.4	2287.9	2296.7	2321.8	2429.5	2504.7	2522.4
52.5°	8021.6	3438.5	2122.7	2091.7	2091.7	2214.1	2255.4	2262.8	2354.3	2444.3	2462.0
55°	7831.4	3304.2	1982.5	1976.6	1970.7	2136.0	2206.8	2218.6	2282.0	2352.8	2361.7
57°	7844.6	3293.9	1874.9	1880.8	1879.3	2056.3	2161.0	2186.1	2218.6	2279.0	2289.4
57.5°	7852.0	3301.3	1851.3	1854.2	1852.7	2034.2	2147.8	2175.8	2200.9	2264.3	2274.6
60°	7962.6	3320.5	1755.4	1722.9	1730.3	1916.2	2072.5	2107.9	2124.2	2208.2	2221.5
62.5°	7798.9	3234.9	1678.7	1600.5	1600.5	1792.3	1967.8	2023.9	2048.9	2162.5	2184.6
65°	7323.9	2994.5	1588.7	1461.8	1476.6	1668.3	1842.4	1933.9	1972.2	2113.8	2137.4
67.5°	6590.8	2715.7	1492.8	1337.9	1352.7	1538.5	1712.6	1811.4	1871.9	2060.7	2079.9
70°	5636.4	2374.9	1363.0	1206.6	1224.3	1396.9	1559.2	1671.3	1761.3	2010.6	2016.5
72.5°	4155.4	1947.1	1181.6	1062.1	1081.3	1231.7	1404.3	1534.1	1655.1	1885.2	1882.2
75°	2470.8	1522.3	980.9	916.0	929.3	1069.5	1264.2	1422.0	1603.4	1836.5	1864.5
77.5°	1498.7	1146.2	799.5	767.1	783.3	926.4	1163.9	1332.0	1581.3	1731.8	1722.9
80°	905.7	818.7	638.7	618.1	634.3	792.1	1076.8	1264.2	1382.2	1479.5	1479.5
82.5°	473.5	500.1	469.1	452.9	475.0	643.1	979.5	1103.4	1221.4	1048.8	979.5
85°	193.2	261.1	284.7	283.2	296.5	445.5	845.2	944.1	787.7	747.9	765.6
87.5°	64.9	110.6	138.7	119.5	125.4	280.3	585.6	455.8	541.4	377.6	358.5
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)