

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: P317382

Luminaire Tested: **GAN-SA8D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317382
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-SA8D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54178 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

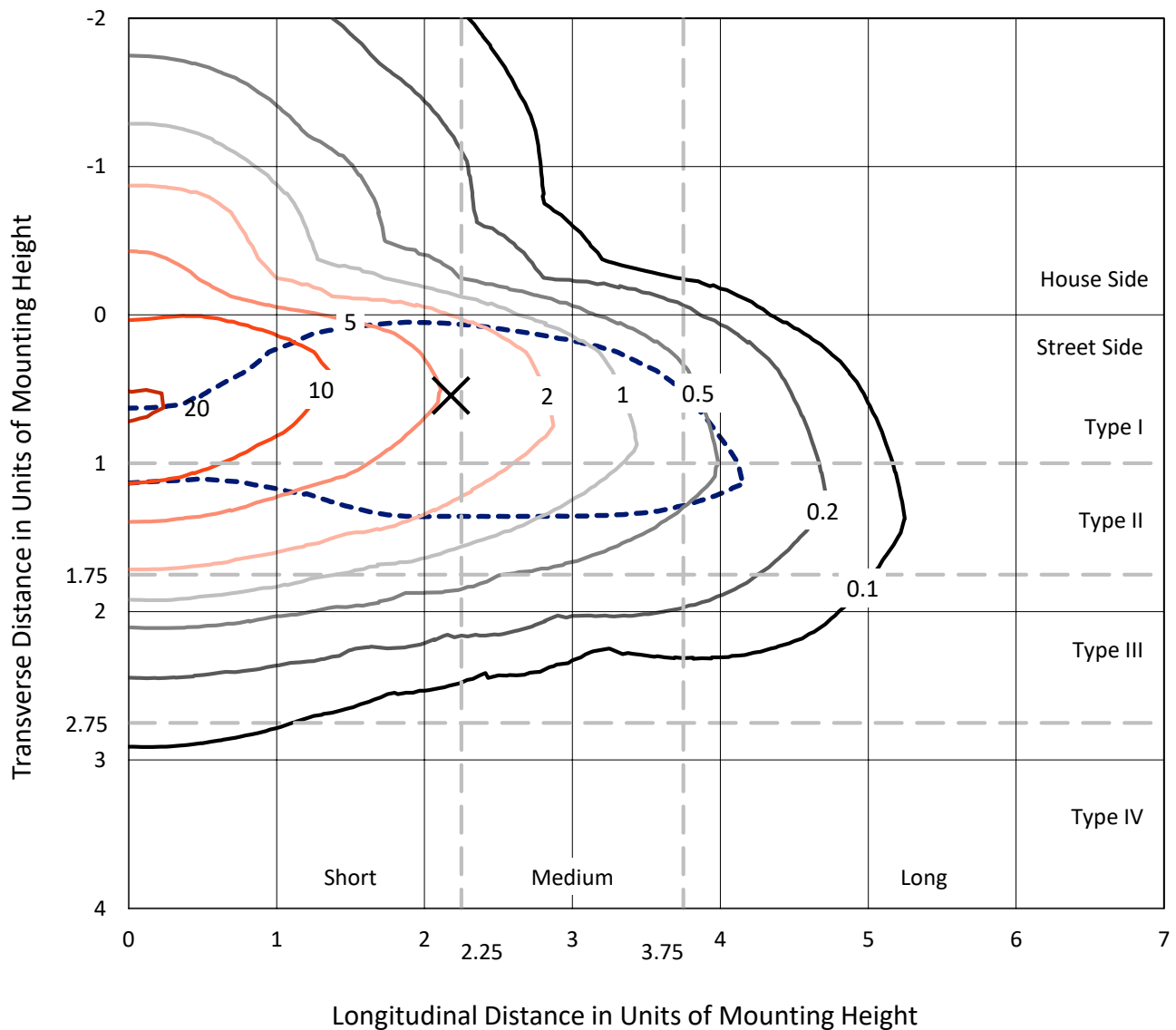


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Iso-Footcandle Lines of Horizontal Illumination

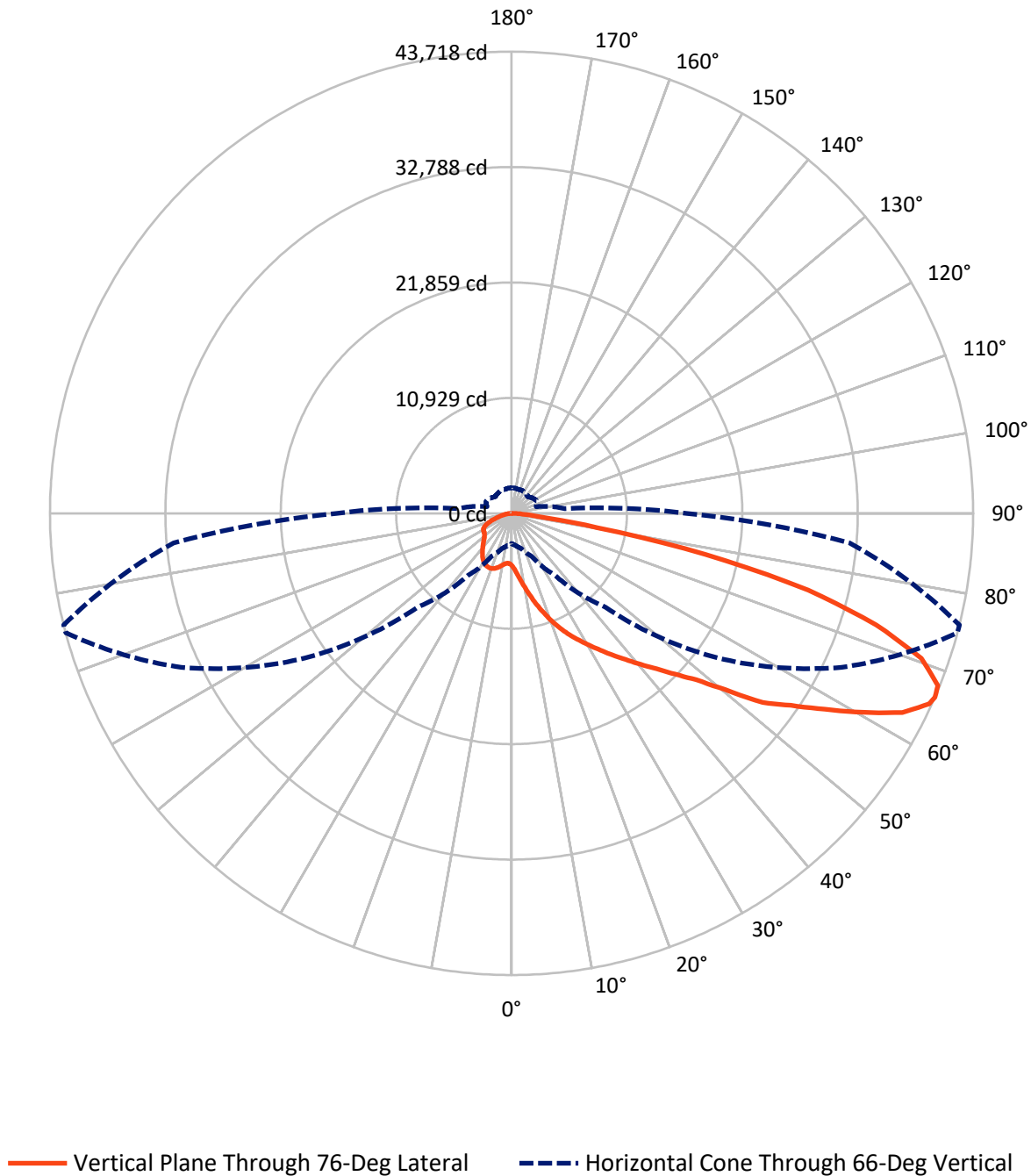
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	9116.3	0.0	9116.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	45061.7	0.0	45061.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	54178.0	0.0	54178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	1.1
10°-20°	2362.7	4.4
20°-30°	4591.3	8.5
30°-40°	7494.0	13.8
40°-50°	10238.5	18.9
50°-60°	11925.8	22.0
60°-70°	10691.7	19.7
70°-80°	5403.1	10.0
80°-90°	872.5	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°	54178.0	100.0
0°-180°	54178.0	100.0

Coefficient of Utilization



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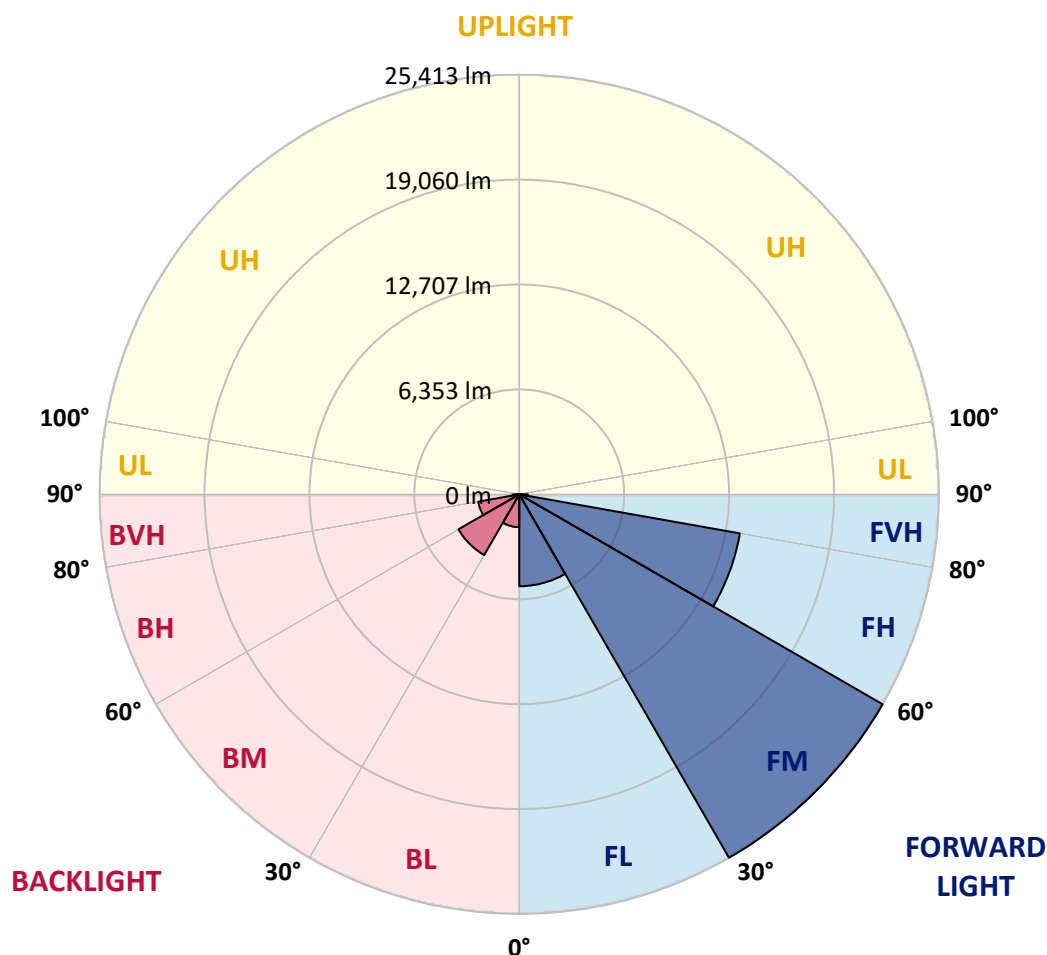
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5563.9	10.3			
FM	(30°-60°)	25413.2	46.9			
FH	(60°-80°)	13569.2	25.0			G5
FVH	(80°-90°)	515.3	1.0			G4/750
BL	(0°-30°)	1988.3	3.7	B3/2500		
BM	(30°-60°)	4245.1	7.8	B3/5000		
BH	(60°-80°)	2525.6	4.7	B4/5000		G4/5000
BVH	(80°-90°)	357.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7
2.5°	6568.1	6468.8	6459.6	6314.3	6281.2	6003.4	5799.3	5585.9	5343.1	5295.3	5104.0
5°	8436.8	8427.6	8300.7	8063.4	7877.7	7403.1	6934.1	6437.5	5893.1	5804.8	5374.4
7.5°	10117.9	10103.2	10005.7	9750.0	9481.5	8898.5	8229.0	7467.5	6584.6	6454.0	5740.4
10°	11394.4	11388.8	11355.7	11168.1	10940.1	10380.9	9641.5	8602.3	7388.4	7210.0	6198.4
12.5°	12380.2	12391.3	12413.3	12347.1	12238.6	11762.2	11004.4	9805.2	8245.5	8068.9	6707.9
15°	13047.9	13081.0	13195.0	13288.8	13345.8	13053.4	12319.5	11035.7	9205.6	8994.1	7272.5
17.5°	13384.5	13421.3	13618.1	13901.3	14162.5	14133.1	13550.0	12209.2	10127.1	9922.9	7879.5
20°	13675.1	13702.7	13923.4	14263.6	14725.3	14929.5	14602.1	13338.5	11136.9	10894.1	8523.2
22.5°	14517.5	14552.4	14618.6	14811.8	15220.1	15595.3	15437.1	14407.1	12062.0	11835.8	9133.9
25°	16143.4	16185.7	16042.2	15878.5	15955.8	16217.0	16246.4	15381.9	13000.1	12744.4	9790.5
27.5°	18102.2	18162.9	17918.3	17497.1	17129.2	17028.1	16993.1	16180.2	13895.8	13599.7	10439.8
30°	20020.6	20125.4	19807.2	19261.0	18586.0	18111.4	17760.1	16961.9	14778.6	14495.4	11052.3
32.5°	21894.8	21852.5	21390.9	20857.5	20066.6	19472.5	18622.7	17800.6	15771.9	15446.3	11661.1
35°	23178.7	23193.4	22764.8	22132.1	21378.0	20921.9	19777.8	18705.5	16785.3	16485.5	12352.6
37.5°	24271.2	24203.1	23717.6	23127.2	22477.9	22282.9	21129.7	19702.4	17883.4	17556.0	13088.3
40°	24635.4	24556.3	24238.1	23813.2	23292.7	23276.1	22621.4	20831.7	19124.9	18801.2	13917.9
42.5°	24414.7	24313.5	24182.9	24067.0	23907.0	23980.6	24022.9	22156.0	20489.6	20127.3	14878.0
45°	23599.9	23447.2	23539.2	23791.1	24138.8	24554.4	25288.3	23621.9	22018.1	21714.6	16005.4
47.5°	22347.3	22209.4	22496.3	23035.2	23980.6	25032.7	26485.7	25240.5	23842.6	23541.0	17611.1
50°	20585.3	20625.7	21035.9	22016.2	23445.4	25253.4	27960.8	27383.3	26494.9	26213.5	19801.7
52.5°	17693.9	17701.3	18856.3	20465.7	22496.3	25139.3	28779.3	30122.0	30116.4	29776.2	21887.5
55°	15008.6	15172.3	16086.4	18225.5	20958.6	24683.2	29351.3	31453.6	32494.6	32095.5	23831.6
57.5°	12385.7	12481.4	13347.7	15496.0	18764.4	23467.4	29938.0	33051.9	35235.2	34983.2	26248.4
60°	9402.4	9549.6	10445.3	12429.9	15957.6	21309.9	29993.2	34720.2	38510.9	38257.1	28946.6
62.5°	6102.7	6356.6	7195.3	9054.8	12562.3	18207.1	28713.1	35810.9	41615.6	41525.5	31341.4
65°	3507.5	3698.8	4281.9	5716.5	8666.7	14311.5	25669.0	35391.5	43526.7	43475.2	32237.1
66°	2865.6	2985.2	3432.1	4467.6	7151.1	12567.8	23899.7	34506.8	43716.1	43717.9	32134.1
67.5°	2291.7	2345.1	2545.6	3198.5	5276.9	9961.6	20737.9	32555.3	43480.7	43545.0	31470.1
70°	1896.3	1923.9	1986.4	2144.6	2880.3	6007.1	14719.8	27484.4	41117.2	41166.8	28878.6
72.5°	1701.3	1717.9	1741.8	1763.9	2032.4	3356.7	8990.4	21986.8	36050.0	36114.3	24929.7
75°	1541.3	1550.5	1546.8	1548.7	1705.0	2139.1	4646.0	16415.6	29149.0	29020.2	19097.3
77.5°	1353.7	1362.9	1344.5	1348.2	1508.2	1644.3	2312.0	11491.8	19671.1	18762.5	10759.8
80°	1144.0	1151.4	1144.0	1156.9	1313.2	1241.5	1344.5	6465.1	8698.0	8227.1	3825.7
82.5°	864.5	895.7	917.8	969.3	1081.5	882.9	899.4	2518.0	2648.6	2521.7	1173.5
85°	378.9	461.7	691.6	741.2	813.0	529.7	590.4	1026.3	1077.8	1044.7	426.7
87.5°	99.3	108.5	342.1	430.4	450.6	239.1	307.2	467.2	492.9	467.2	141.6
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°	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7
2.5°	5002.9	4912.7	4750.9	4607.4	4498.9	4425.3	4351.7	4315.0	4292.9	4270.8	4274.5
5°	5162.9	4980.8	4703.0	4506.2	4395.9	4326.0	4289.2	4274.5	4265.3	4243.2	4243.2
7.5°	5403.8	5146.3	4763.7	4561.4	4475.0	4421.6	4399.6	4392.2	4381.2	4355.4	4359.1
10°	5707.3	5346.8	4890.7	4693.9	4614.8	4555.9	4524.6	4513.6	4493.4	4463.9	4467.6
12.5°	6064.1	5595.1	5058.0	4852.0	4756.4	4677.3	4625.8	4594.5	4559.6	4521.0	4522.8
15°	6454.0	5865.5	5238.3	4993.7	4863.1	4752.7	4669.9	4616.6	4561.4	4513.6	4511.8
17.5°	6849.5	6126.7	5376.2	5070.9	4894.3	4749.0	4636.8	4554.1	4486.0	4427.2	4421.6
20°	7276.2	6362.1	5453.5	5063.5	4835.5	4662.6	4513.6	4410.6	4335.2	4276.3	4267.1
22.5°	7710.3	6582.8	5466.4	4988.1	4704.9	4493.4	4337.0	4223.0	4145.7	4085.0	4063.0
25°	8107.6	6753.8	5413.0	4842.8	4522.8	4294.7	4142.1	4026.2	3963.7	3891.9	3869.9
27.5°	8469.9	6873.4	5306.3	4657.1	4318.6	4094.2	3950.8	3851.5	3783.4	3728.2	3709.8
30°	8795.5	6937.8	5131.6	4436.4	4109.0	3904.8	3783.4	3715.4	3656.5	3586.6	3573.7
32.5°	9104.5	6937.8	4907.2	4195.4	3901.1	3737.4	3665.7	3623.4	3557.2	3489.1	3470.7
35°	9413.5	6895.5	4642.4	3943.4	3709.8	3617.9	3614.2	3564.5	3463.4	3371.4	3347.5
37.5°	9739.0	6809.0	4344.4	3708.0	3553.5	3564.5	3595.8	3485.4	3342.0	3211.4	3176.4
40°	10106.9	6689.5	4035.4	3503.8	3422.9	3540.6	3546.1	3371.4	3091.8	2972.3	2941.0
42.5°	10539.1	6569.9	3748.5	3323.6	3319.9	3468.9	3452.3	3124.9	2957.6	2896.9	2880.3
45°	11107.4	6501.9	3476.2	3152.5	3239.0	3353.0	3292.3	2988.8	2918.9	2884.0	2869.3
47.5°	12003.2	6536.8	3226.1	3016.4	3158.1	3237.1	2994.4	2933.7	2884.0	2841.7	2827.0
50°	13125.1	6516.6	3023.8	2922.6	3066.1	3115.7	2860.1	2861.9	2836.2	2788.4	2766.3
52.5°	13969.4	6358.4	2893.2	2869.3	2985.2	2900.6	2775.5	2792.0	2779.2	2709.3	2685.4
55°	14784.2	6222.3	2827.0	2849.1	2926.3	2632.0	2676.2	2716.6	2703.7	2635.7	2624.7
57.5°	15797.6	6196.5	2786.5	2854.6	2876.6	2497.7	2580.5	2633.9	2624.7	2595.2	2589.7
60°	17039.1	6203.9	2749.7	2863.8	2821.5	2398.4	2490.4	2558.4	2564.0	2558.4	2554.8
62.5°	17721.5	6003.4	2657.8	2838.0	2724.0	2312.0	2396.6	2495.9	2497.7	2508.8	2506.9
65°	17142.1	5403.8	2486.7	2747.9	2560.3	2240.2	2315.7	2424.2	2396.6	2446.2	2446.2
66°	16579.3	5058.0	2402.1	2689.0	2490.4	2212.7	2289.9	2387.4	2352.4	2420.5	2420.5
67.5°	15429.8	4475.0	2249.4	2564.0	2391.1	2174.0	2260.5	2326.7	2278.9	2380.0	2372.7
70°	13329.3	3461.5	1942.3	2280.7	2227.4	2117.0	2220.0	2205.3	2135.4	2289.9	2260.5
72.5°	11238.0	2630.2	1559.7	1909.2	1979.1	2045.3	2163.0	2050.8	1962.5	2071.0	2006.7
75°	8720.0	1977.2	1232.3	1484.3	1671.9	1933.1	2094.9	1872.4	1745.5	1734.4	1699.5
77.5°	4714.1	1357.4	976.7	1133.0	1328.0	1793.3	2049.0	1681.1	1489.8	1445.7	1418.1
80°	1866.9	882.9	710.0	858.9	928.8	1591.0	1938.6	1458.6	1228.6	1184.5	1142.2
82.5°	770.7	522.4	458.0	575.7	605.1	1361.1	1740.0	1195.5	949.1	1313.2	1394.2
85°	331.1	286.9	272.2	298.0	342.1	954.6	1385.0	912.3	1024.5	914.1	726.5
87.5°	99.3	121.4	115.9	114.0	125.1	228.1	737.6	507.6	752.3	285.1	213.4
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)