

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: P318021

Luminaire Tested: **GAN-SA7D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45040 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

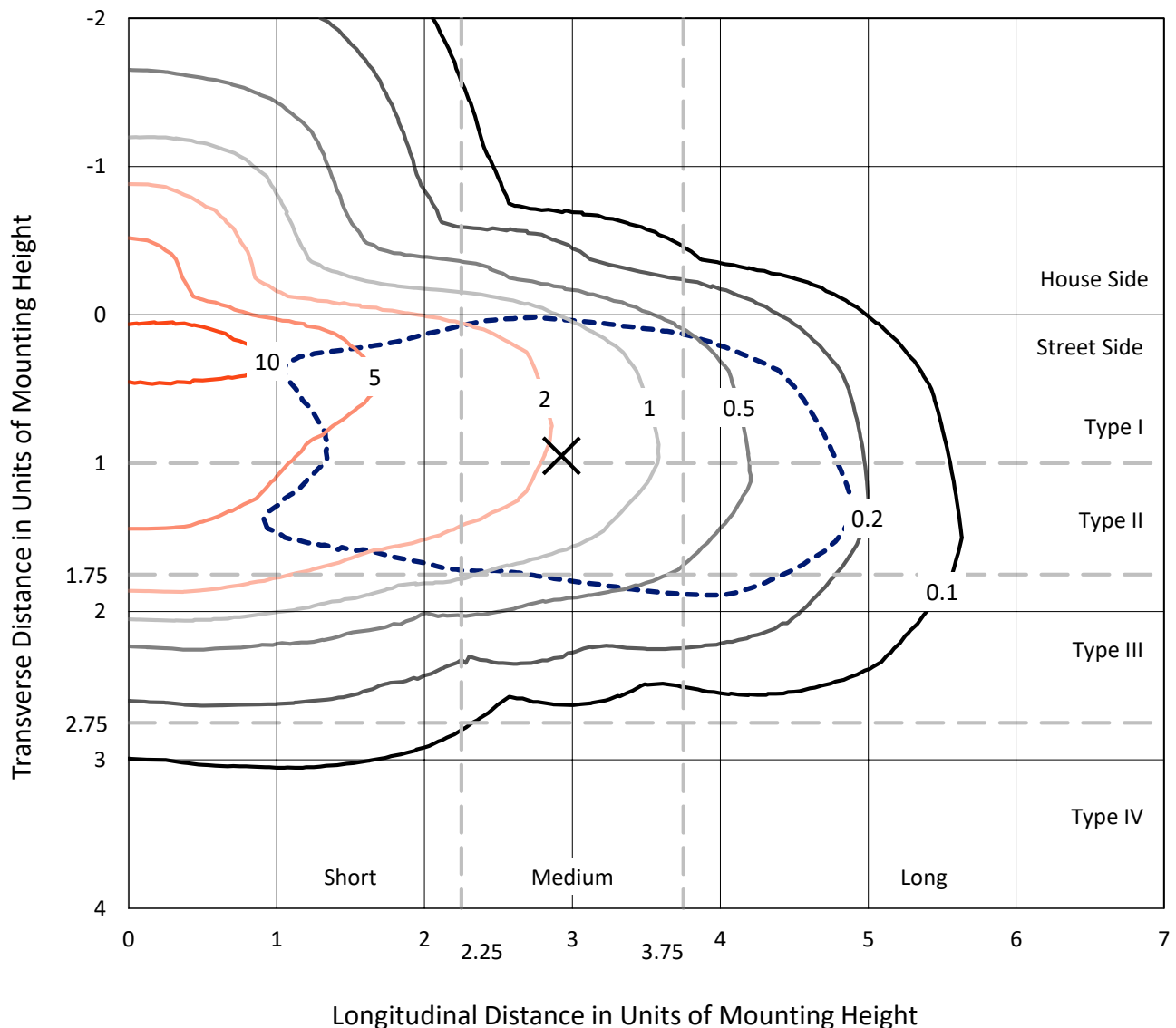
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

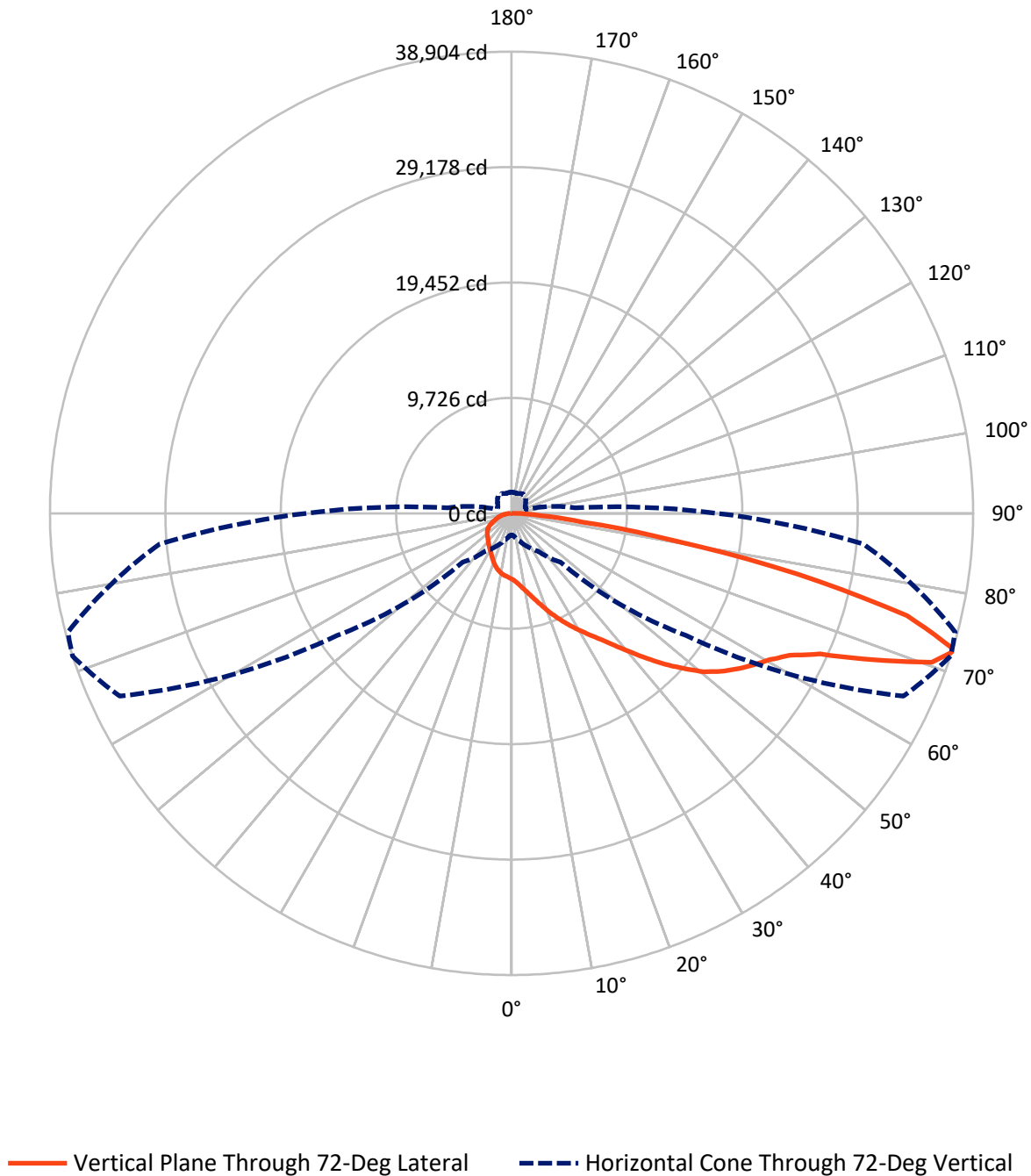
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8355.2	0.0	8355.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36684.8	0.0	36684.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	45040.0	0.0	45040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	1.2
10°-20°	1794.2	4.0
20°-30°	3144.1	7.0
30°-40°	4661.7	10.4
40°-50°	6818.1	15.1
50°-60°	9381.6	20.8
60°-70°	10444.6	23.2
70°-80°	7077.2	15.7
80°-90°	1163.2	2.6
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°	45040.0	100.0
0°-180°	45040.0	100.0

Coefficient of Utilization



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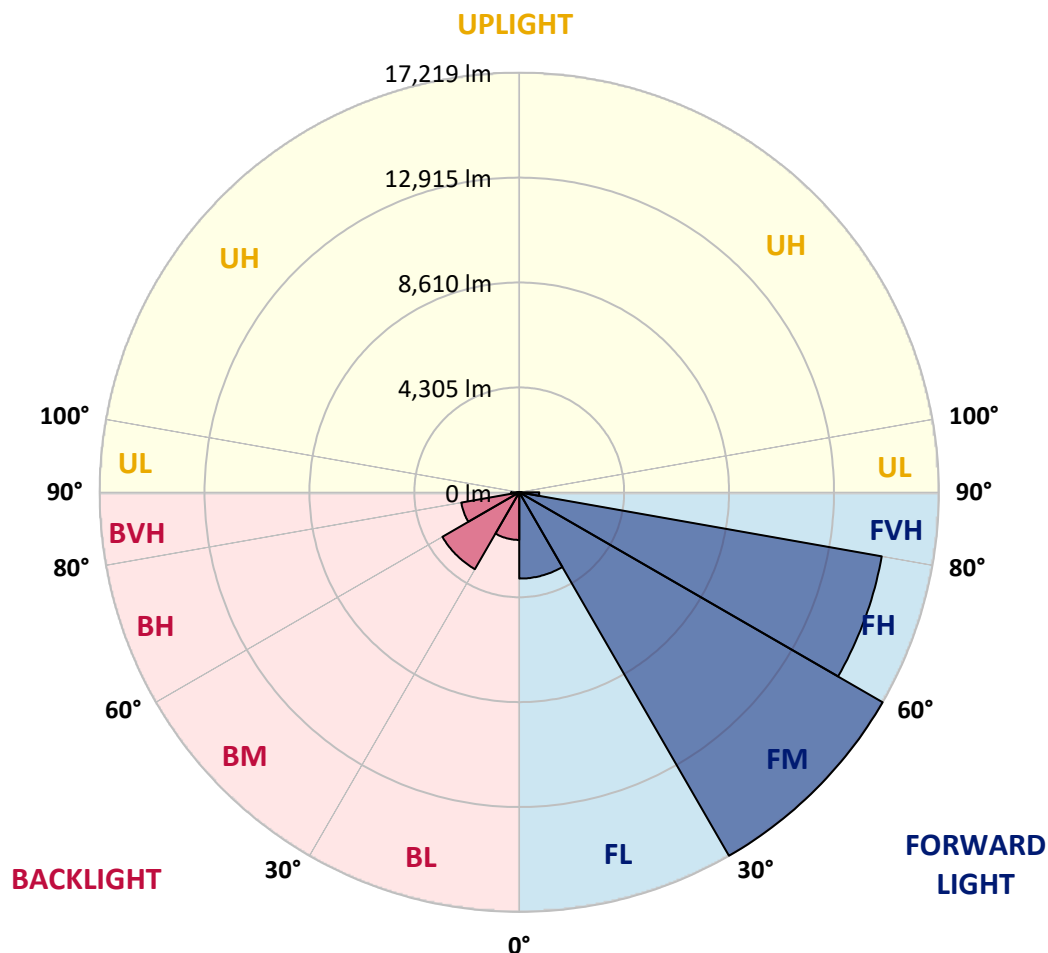
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3540.4	7.9			
FM	(30°-60°)	17219.4	38.2			
FH	(60°-80°)	15104.5	33.5			G5
FVH	(80°-90°)	820.5	1.8			G5
BL	(0°-30°)	1953.1	4.3	B3/2500		
BM	(30°-60°)	3642.1	8.1	B3/5000		
BH	(60°-80°)	2417.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	342.7	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1
2.5°	6121.1	6111.8	6079.2	6079.2	6017.2	5964.5	5865.2	5798.5	5719.4	5691.5	5598.5
5°	6713.5	6716.6	6676.3	6648.4	6556.9	6445.2	6276.2	6122.7	5969.1	5907.1	5716.3
7.5°	7211.3	7205.1	7194.3	7171.0	7085.7	6971.0	6743.0	6515.0	6288.6	6195.5	5866.8
10°	7530.8	7544.8	7554.1	7564.9	7529.3	7447.1	7231.5	6953.9	6657.7	6530.5	6046.7
12.5°	7692.1	7716.9	7760.3	7834.8	7893.7	7884.4	7727.8	7433.1	7081.1	6921.3	6271.5
15°	7786.7	7819.3	7887.5	8020.9	8186.8	8281.4	8239.5	7972.8	7580.4	7383.5	6546.0
17.5°	7845.6	7872.0	7977.4	8155.8	8402.4	8653.6	8763.7	8540.4	8144.9	7920.1	6860.8
20°	7885.9	7906.1	8037.9	8247.3	8566.8	8966.9	9273.9	9218.1	8766.8	8475.3	7189.6
22.5°	7975.9	7992.9	8118.6	8329.5	8683.1	9199.5	9765.5	9849.3	9422.8	9092.5	7541.7
25°	8227.1	8227.1	8332.6	8479.9	8811.8	9401.1	10181.2	10551.8	10092.8	9708.2	7867.3
27.5°	8706.3	8701.7	8740.4	8791.6	9042.9	9605.8	10551.8	11172.1	10787.5	10367.3	8183.7
30°	9273.9	9304.9	9309.6	9284.8	9402.6	9861.7	10894.5	11826.6	11487.0	11034.1	8507.8
32.5°	10004.4	10024.5	10001.3	9919.1	9902.0	10224.6	11231.1	12512.1	12243.8	11730.4	8804.0
35°	10931.8	10893.0	10820.1	10652.6	10492.9	10710.0	11615.7	13197.5	13093.6	12572.5	9211.9
37.5°	11925.8	11927.4	11837.4	11457.5	11237.3	11330.3	12146.1	13974.5	14121.8	13574.4	9734.5
40°	12723.0	12764.8	12820.7	12321.3	12035.9	12164.7	12820.7	14875.5	15337.7	14762.3	10415.3
42.5°	13279.7	13327.8	13486.0	13172.7	12876.5	13115.3	13614.7	15837.0	16702.4	16133.2	11212.5
45°	13869.0	13895.4	14007.0	13872.1	13682.9	14221.1	14509.5	16832.6	18146.2	17594.1	12104.2
47.5°	14489.4	14517.3	14632.0	14542.1	14442.8	15253.9	15443.1	17770.9	19529.5	19199.2	13056.4
50°	15255.5	15274.1	15382.6	15219.8	15250.8	16032.4	16277.5	18631.6	20979.6	20641.5	14011.7
52.5°	16300.7	16305.4	16455.8	16308.5	16162.7	16603.1	16995.5	19442.7	22116.3	21956.6	14967.0
55°	17119.5	17169.2	17662.3	17631.3	17547.6	17121.1	17595.7	20215.0	23130.5	23206.5	15981.2
57.5°	16596.9	16790.8	17789.5	18493.6	19179.0	18409.8	18406.7	21085.0	24073.4	24433.2	17096.3
60°	14535.9	14799.5	16271.2	17832.9	19977.7	20652.3	20090.9	22147.3	25025.7	25649.1	18493.6
62.5°	10381.2	10815.4	12809.8	15303.5	18882.8	22138.0	23518.2	23833.1	26320.6	27057.2	20309.6
65°	5248.0	5576.8	7248.6	10252.5	15086.4	21167.2	27243.3	27524.0	28570.8	29225.3	23105.7
67.5°	3188.5	3312.6	4128.3	5702.4	9249.1	16488.4	28459.2	33676.1	32925.5	33272.9	27092.9
70°	2349.5	2441.0	2949.7	3787.1	5319.3	9675.6	24727.9	38066.5	37573.4	37534.6	30039.5
72°	1830.0	1896.7	2346.4	3059.8	3889.5	5804.7	17922.9	36445.9	38904.0	38708.6	29769.6
72.5°	1735.4	1794.3	2203.7	2879.9	3675.5	5261.9	16114.6	35352.6	38807.8	38719.4	29420.7
75°	1366.3	1408.1	1631.5	2227.0	2876.8	2985.3	8830.4	27396.9	34426.7	35858.2	26461.7
77.5°	1130.6	1136.8	1254.6	1620.6	2242.5	2110.7	4337.7	19008.5	24651.9	26226.0	18744.8
80°	921.2	928.9	984.8	1136.8	1696.6	1561.7	2059.5	10930.2	13802.3	13819.4	8914.1
82.5°	733.5	735.1	797.1	831.2	1218.9	1116.6	1180.2	5131.7	6031.2	5801.6	3204.0
85°	516.4	505.6	778.5	682.4	797.1	716.5	651.3	2031.6	2493.7	2385.2	1003.4
87.5°	172.1	178.3	345.8	442.0	465.2	406.3	290.0	778.5	941.4	933.6	317.9
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°	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1	5541.1
2.5°	5569.0	5519.4	5446.5	5365.9	5302.3	5237.1	5189.1	5164.2	5136.3	5113.1	5141.0
5°	5627.9	5534.9	5379.8	5227.8	5116.2	5016.9	4945.6	4908.4	4874.2	4851.0	4854.1
7.5°	5724.1	5573.7	5313.1	5091.4	4936.3	4829.3	4756.4	4731.6	4709.9	4703.6	4711.4
10°	5826.4	5604.7	5224.7	4930.1	4753.3	4664.9	4632.3	4649.4	4664.9	4678.8	4694.3
12.5°	5942.8	5632.6	5096.0	4740.9	4590.4	4556.3	4588.9	4663.3	4717.6	4750.2	4770.3
15°	6094.7	5657.4	4947.1	4551.7	4450.9	4489.6	4599.7	4728.5	4823.1	4883.5	4892.9
17.5°	6234.3	5655.9	4756.4	4360.9	4337.7	4450.9	4616.8	4798.3	4925.4	5010.7	5027.8
20°	6378.5	5614.0	4534.6	4174.8	4222.9	4409.0	4624.6	4843.2	4996.8	5096.0	5119.3
22.5°	6513.5	5541.1	4291.1	4005.8	4126.7	4353.2	4595.1	4816.9	4970.4	5051.0	5075.8
25°	6605.0	5413.9	4044.5	3863.1	4041.4	4284.9	4498.9	4677.3	4792.0	4832.4	4838.6
27.5°	6651.5	5248.0	3811.9	3739.0	3953.1	4173.3	4320.6	4409.0	4441.6	4438.5	4432.3
30°	6657.7	5029.3	3611.9	3638.2	3850.7	4008.9	4078.7	4061.6	4019.7	3948.4	3954.6
32.5°	6637.5	4782.7	3444.4	3542.1	3720.4	3808.8	3811.9	3729.7	3618.1	3504.9	3473.8
35°	6643.7	4540.8	3297.1	3433.5	3562.2	3601.0	3565.3	3444.4	3292.4	3146.6	3115.6
37.5°	6712.0	4329.9	3169.9	3307.9	3387.0	3396.3	3345.1	3218.0	3106.3	2963.6	2951.2
40°	6874.8	4179.5	3048.9	3166.8	3211.8	3216.4	3143.5	3053.6	3062.9	2986.9	2985.3
42.5°	7167.9	4114.3	2941.9	3019.5	3047.4	3056.7	3000.8	2943.5	3024.1	2974.5	2957.4
45°	7546.3	4129.8	2852.0	2875.2	2926.4	2969.8	2935.7	2865.9	2896.9	2681.4	2610.0
47.5°	7983.6	4229.1	2780.6	2751.2	2839.6	2921.8	2869.0	2763.6	2653.5	2439.4	2399.1
50°	8495.4	4382.6	2715.5	2628.6	2745.0	2856.6	2803.9	2653.5	2487.5	2383.6	2369.7
52.5°	9028.9	4570.3	2650.4	2493.7	2625.5	2807.0	2780.6	2628.6	2423.9	2321.6	2303.0
55°	9633.7	4759.5	2568.2	2337.1	2496.8	2783.7	2769.8	2538.7	2375.9	2318.5	2304.5
57.5°	10385.9	4975.0	2459.6	2174.3	2375.9	2700.0	2656.6	2484.4	2326.2	2282.8	2278.2
60°	11366.0	5293.0	2303.0	2000.6	2228.5	2571.3	2562.0	2405.3	2247.1	2216.1	2209.9
62.5°	12836.2	5818.7	2087.4	1826.9	2064.1	2352.6	2437.9	2298.3	2163.4	2161.8	2165.0
65°	15115.9	6609.6	1853.2	1674.9	1898.2	2168.1	2293.7	2188.2	2078.1	2109.1	2113.8
67.5°	17758.5	7265.6	1623.7	1526.0	1729.2	1992.8	2163.4	2078.1	1964.9	2045.5	2047.1
70°	18637.8	6679.4	1422.1	1378.7	1553.9	1823.8	2022.3	1957.1	1842.4	1923.0	1915.3
72°	17344.4	5392.2	1291.8	1267.0	1422.1	1684.2	1896.7	1843.9	1730.7	1785.0	1764.8
72.5°	16936.6	5141.0	1259.3	1239.1	1386.4	1648.5	1864.1	1816.0	1702.8	1749.3	1730.7
75°	15108.1	4464.8	1082.5	1087.1	1209.6	1474.8	1681.1	1665.6	1549.3	1553.9	1547.7
77.5°	10958.1	3273.8	911.9	942.9	1029.7	1296.5	1496.5	1487.2	1360.1	1336.8	1332.2
80°	5085.2	1670.2	742.8	756.8	846.8	1084.0	1276.3	1263.9	1161.6	1132.1	1115.0
82.5°	1741.6	794.0	558.3	567.6	656.0	873.1	1107.3	1099.5	1014.2	956.9	921.2
85°	621.9	395.5	390.8	381.5	468.3	687.0	964.6	922.7	797.1	679.3	676.2
87.5°	201.6	169.0	201.6	200.1	272.9	465.2	701.0	597.1	578.5	480.8	471.5
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)