

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: P318322

Luminaire Tested: **GAN-SA8B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38309 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

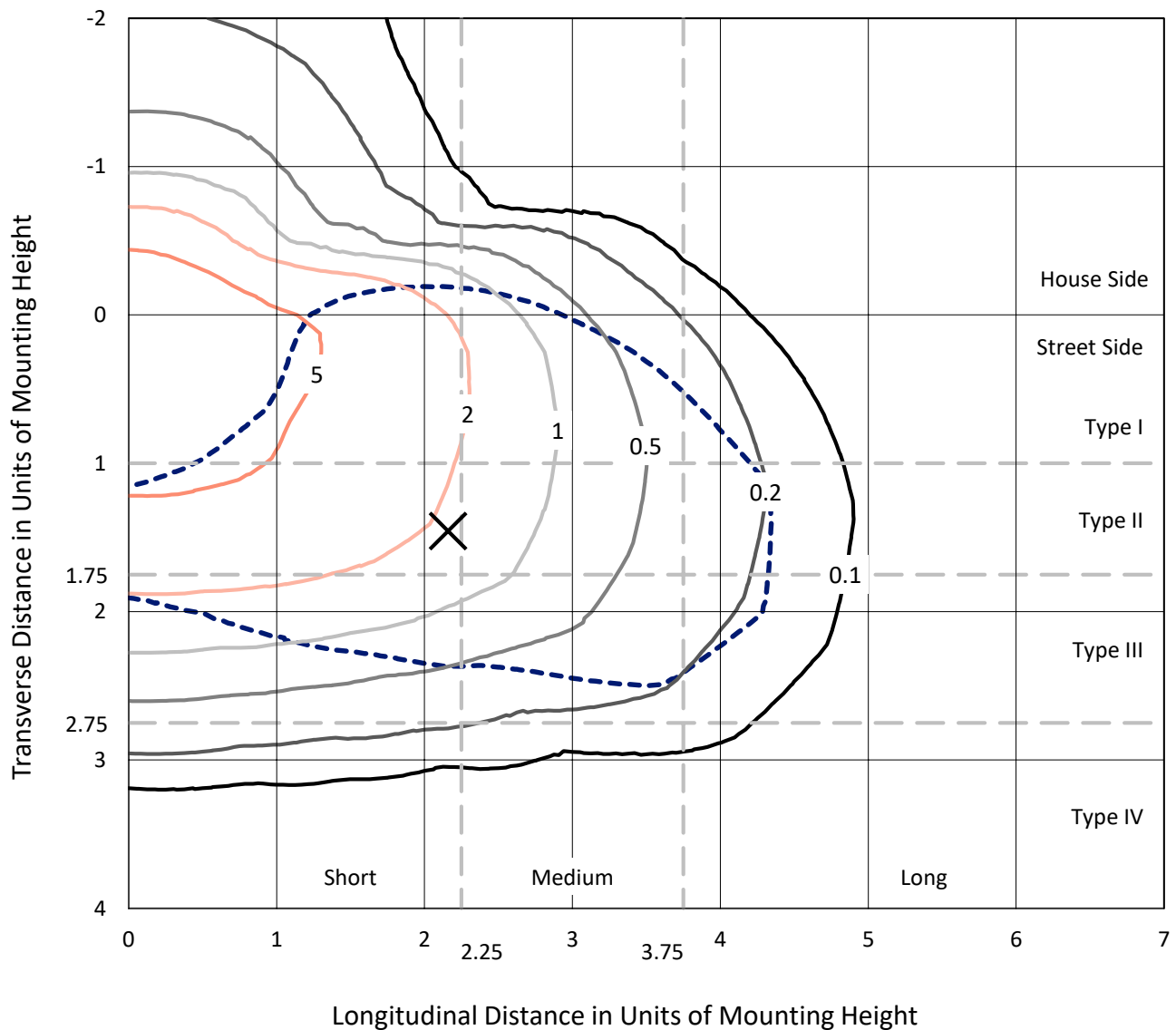
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

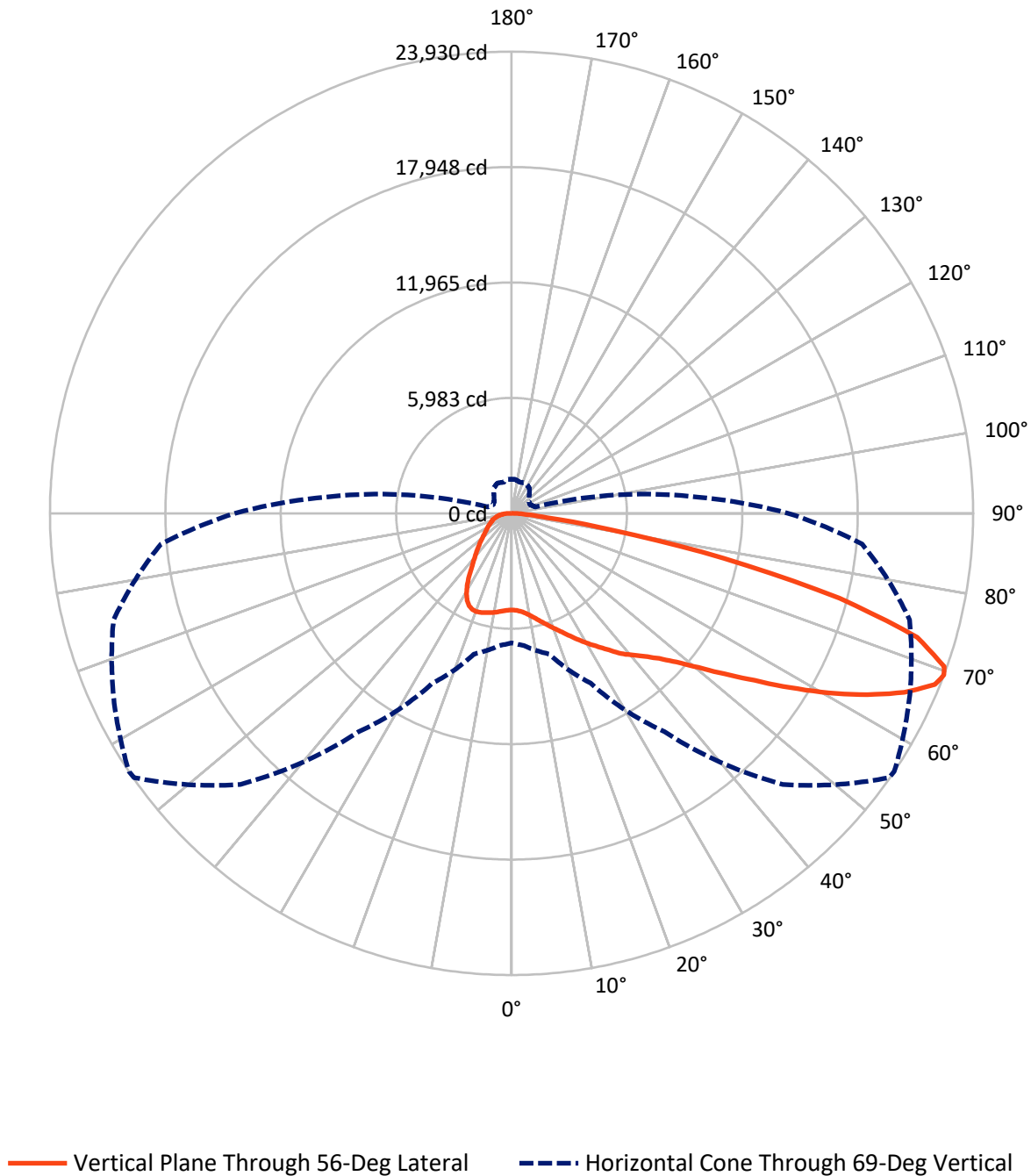
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8531.3	0.0	8531.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29777.7	0.0	29777.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	38309.0	0.0	38309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	1.3
10°-20°	1581.7	4.1
20°-30°	2761.1	7.2
30°-40°	3966.3	10.4
40°-50°	5489.1	14.3
50°-60°	8042.3	21.0
60°-70°	9805.0	25.6
70°-80°	5420.9	14.2
80°-90°	750.8	2.0
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°	38309.0	100.0
0°-180°	38309.0	100.0

Coefficient of Utilization



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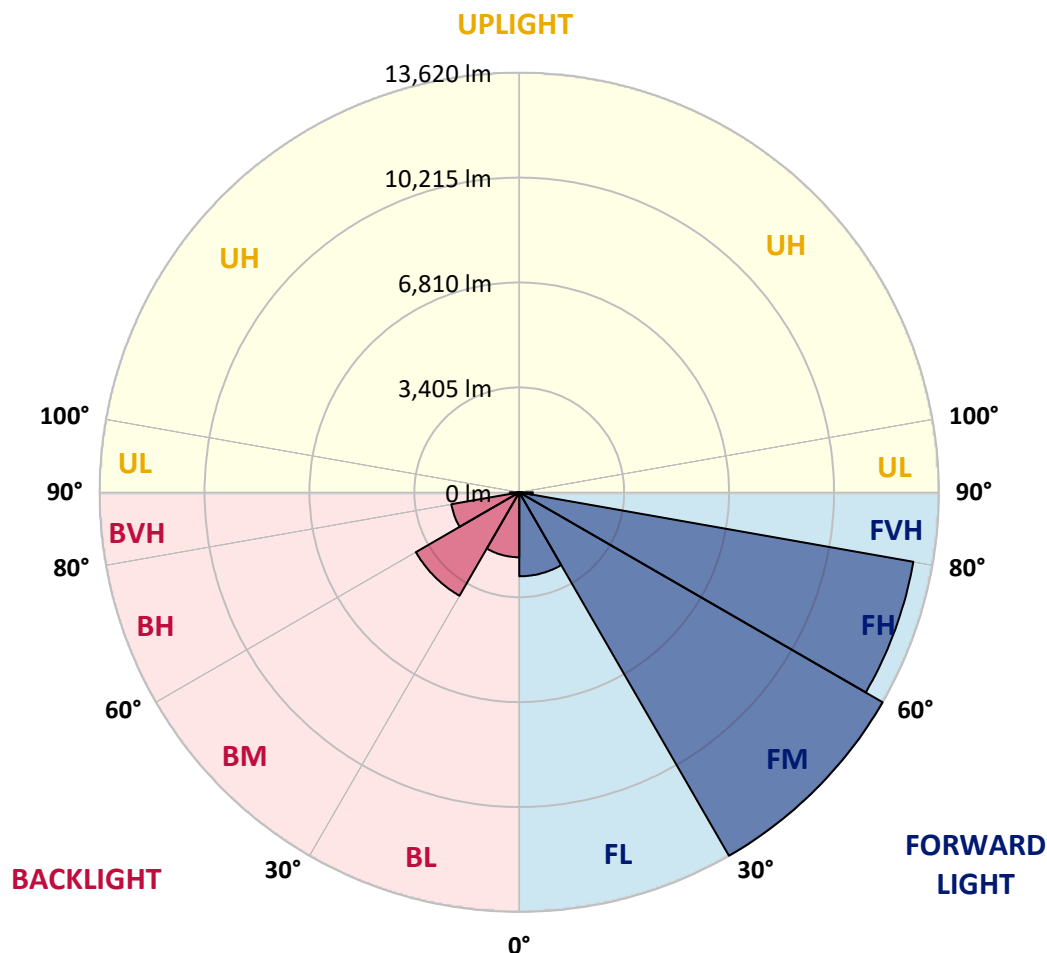
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2726.5	7.1			
FM	(30°-60°)	13620.3	35.6			
FH	(60°-80°)	12988.7	33.9			G5
FVH	(80°-90°)	442.2	1.2			G3/500
BL	(0°-30°)	2108.3	5.5	B3/2500		
BM	(30°-60°)	3877.3	10.1	B3/5000		
BH	(60°-80°)	2237.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	308.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3
2.5°	5040.0	5045.3	5041.3	5051.9	5040.0	5047.9	5041.3	5041.3	5037.4	5025.5	5012.3
5°	5119.2	5129.7	5123.1	5133.7	5119.2	5121.8	5109.9	5109.9	5098.1	5073.0	5046.6
7.5°	5243.2	5255.1	5249.8	5260.4	5240.6	5240.6	5224.8	5223.4	5199.7	5158.8	5128.4
10°	5391.0	5406.9	5401.6	5417.4	5401.6	5406.9	5391.0	5391.0	5359.4	5301.3	5263.0
12.5°	5606.2	5626.0	5611.4	5610.1	5603.5	5614.1	5600.9	5598.2	5569.2	5490.0	5437.2
15°	5893.9	5915.0	5884.6	5882.0	5845.0	5841.1	5841.1	5837.1	5818.6	5723.6	5636.5
17.5°	6225.1	6231.7	6205.3	6163.1	6115.6	6085.2	6081.3	6091.8	6091.8	5981.0	5842.4
20°	6549.8	6561.6	6540.5	6493.0	6432.3	6387.4	6355.8	6376.9	6375.6	6243.6	6046.9
22.5°	6903.4	6931.2	6899.5	6838.8	6767.5	6717.4	6661.9	6680.4	6681.7	6519.4	6247.5
25°	7361.4	7336.3	7316.5	7230.7	7129.1	7077.6	7026.2	7044.6	7039.4	6816.3	6454.7
27.5°	7766.5	7771.8	7745.4	7654.4	7536.9	7423.4	7420.8	7432.6	7412.8	7125.2	6650.1
30°	8237.7	8240.3	8203.4	8121.5	7993.5	7847.0	7812.7	7832.5	7790.3	7418.1	6855.9
32.5°	8706.2	8719.4	8678.5	8579.5	8476.5	8298.4	8229.8	8243.0	8137.4	7717.7	7068.4
35°	9116.6	9135.1	9121.9	9055.9	8943.7	8790.6	8708.8	8700.9	8570.2	8084.6	7349.5
37.5°	9535.0	9552.1	9537.6	9482.2	9437.3	9275.0	9231.4	9231.4	9004.4	8459.4	7707.1
40°	9965.2	9991.6	9974.4	9897.9	9859.6	9785.7	9681.4	9656.4	9410.9	8909.4	8290.5
42.5°	10365.1	10399.4	10468.0	10423.1	10345.3	10355.8	10146.0	10132.8	9953.3	9574.5	9022.9
45°	10932.5	10982.7	11098.8	11064.5	11048.7	10990.6	10741.2	10729.3	10660.7	10469.3	9932.2
47.5°	11551.5	11620.1	11829.9	11836.5	12006.8	11897.2	11558.1	11517.2	11533.0	11540.9	11042.1
50°	12121.6	12196.8	12541.3	12703.6	13104.8	13128.5	12586.1	12549.2	12611.2	12793.3	12335.4
52.5°	12576.9	12671.9	13102.1	13603.6	14291.2	14486.5	13851.7	13824.0	13870.2	14184.3	13797.6
55°	12910.8	13013.7	13482.2	14395.5	15493.5	15837.9	15308.7	15282.3	15311.4	15711.2	15387.9
57.5°	12988.7	13013.7	13693.4	14928.6	16508.3	17335.8	17091.7	17038.9	16896.3	17244.7	17143.1
60°	12623.1	12723.4	13519.2	15116.0	17293.6	18812.6	18955.1	18889.1	18489.2	18774.3	18692.5
62.5°	11881.4	12060.9	12868.6	14831.0	17601.1	20018.8	20782.9	20703.7	20014.8	20199.6	19806.3
65°	10669.9	10746.5	11595.0	13847.8	17210.4	20790.8	22412.7	22373.2	21506.1	21217.1	20012.2
67.5°	8502.9	8646.8	9367.3	11793.0	15612.2	20699.8	23673.1	23669.1	22480.1	21594.5	19282.4
69°	6717.4	6866.5	7552.7	9714.4	13814.8	19867.0	23884.2	23930.4	22754.6	21364.9	18239.8
70°	5355.4	5528.3	5999.4	8182.2	12219.3	18769.0	23708.7	23791.9	22701.8	20986.1	17277.7
72.5°	2279.2	2419.0	2754.2	4217.8	7447.2	14015.4	21677.7	21991.8	21478.4	19207.2	14279.3
75°	995.1	1038.6	1190.4	1719.6	3305.9	7628.0	16982.1	17562.8	18365.2	16235.2	10636.9
77.5°	728.5	747.0	830.1	1009.6	1483.4	2880.9	10920.7	11258.5	13244.7	11814.1	6524.7
80°	563.5	576.7	641.4	741.7	968.7	1165.3	4980.6	5270.9	7447.2	6068.1	2717.3
82.5°	448.7	457.9	502.8	546.4	669.1	706.0	1653.6	1834.4	2749.0	1676.0	719.2
85°	417.0	427.6	443.4	398.6	428.9	414.4	715.3	748.3	830.1	658.5	300.9
87.5°	188.7	223.0	439.5	310.1	228.3	182.1	293.0	306.2	344.4	345.8	133.3
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°	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3
2.5°	5020.2	5016.2	5022.8	5007.0	5026.8	5025.5	5018.9	5021.5	5034.7	5033.4	5034.7
5°	5050.6	5047.9	5055.8	5044.0	5067.7	5075.6	5077.0	5088.8	5103.3	5107.3	5107.3
7.5°	5127.1	5127.1	5131.1	5115.2	5131.1	5129.7	5123.1	5135.0	5149.5	5150.9	5149.5
10°	5259.1	5260.4	5253.8	5212.9	5199.7	5164.1	5131.1	5132.4	5150.9	5165.4	5169.3
12.5°	5425.4	5420.1	5391.0	5315.8	5260.4	5187.8	5153.5	5152.2	5170.7	5182.5	5186.5
15°	5615.4	5600.9	5525.7	5402.9	5305.3	5234.0	5178.6	5165.4	5154.8	5141.6	5142.9
17.5°	5794.9	5761.9	5636.5	5466.3	5363.3	5268.3	5161.4	5075.6	5016.2	4981.9	4971.4
20°	5977.0	5912.3	5731.5	5525.7	5395.0	5222.1	5016.2	4842.0	4733.8	4683.7	4674.4
22.5°	6143.3	6039.0	5820.0	5587.7	5369.9	5066.4	4743.1	4489.7	4339.2	4271.9	4277.2
25°	6305.6	6160.4	5912.3	5631.2	5243.2	4791.9	4363.0	4051.5	3877.3	3802.1	3799.5
27.5°	6448.1	6283.2	6012.6	5595.6	5007.0	4401.3	3913.0	3609.4	3464.3	3399.6	3389.0
30°	6611.8	6437.6	6145.9	5459.7	4661.2	3949.9	3473.5	3259.7	3156.8	3092.1	3080.2
32.5°	6811.1	6647.4	6255.5	5212.9	4219.1	3478.8	3130.4	2981.2	2887.5	2815.0	2801.8
35°	7101.4	6924.6	6283.2	4859.2	3733.5	3106.6	2878.3	2725.2	2598.5	2504.8	2495.6
37.5°	7465.6	7271.6	6219.8	4401.3	3262.3	2865.1	2668.5	2479.7	2314.8	2182.8	2161.7
40°	7990.9	7697.9	6044.3	3873.4	2915.3	2679.0	2463.9	2248.8	2044.2	1889.8	1859.5
42.5°	8621.7	8198.1	5775.1	3348.1	2660.5	2490.3	2260.7	1994.1	1798.8	1689.2	1673.4
45°	9424.1	8718.0	5401.6	2888.9	2409.8	2301.6	2041.6	1796.1	1674.7	1594.2	1581.0
47.5°	10340.0	9301.4	5009.6	2515.4	2197.3	2124.7	1866.1	1707.7	1611.4	1548.0	1536.2
50°	11465.7	9959.9	4593.9	2209.2	1983.5	1912.3	1782.9	1658.9	1582.3	1533.5	1521.6
52.5°	12735.3	10702.9	4294.4	1967.7	1806.7	1755.2	1739.4	1632.5	1570.5	1533.5	1521.6
55°	14102.5	11459.1	3971.0	1764.5	1653.6	1668.1	1710.4	1635.1	1592.9	1548.0	1530.9
57.5°	15471.0	12240.4	3610.7	1592.9	1532.2	1603.5	1690.6	1640.4	1604.8	1561.2	1545.4
60°	16553.2	12735.3	3052.5	1449.0	1435.9	1532.2	1643.0	1600.8	1554.6	1555.9	1553.3
62.5°	17058.7	12708.9	2436.2	1321.0	1339.5	1435.9	1566.5	1538.8	1500.5	1552.0	1555.9
65°	16774.9	12075.4	1896.4	1204.9	1236.6	1335.6	1487.3	1508.4	1521.6	1620.6	1633.8
67.5°	15584.5	10842.8	1468.8	1103.3	1142.9	1266.9	1495.2	1643.0	1660.2	1764.5	1763.1
69°	14353.2	9686.7	1276.2	1050.5	1096.7	1284.1	1598.2	1728.8	1664.2	1775.0	1759.2
70°	13321.2	8772.2	1173.2	1014.9	1075.6	1314.4	1666.8	1727.5	1644.4	1739.4	1713.0
72.5°	10259.5	6310.9	995.1	948.9	1004.3	1257.7	1686.6	1689.2	1598.2	1616.7	1571.8
75°	7036.7	3988.2	868.4	859.1	896.1	1133.6	1623.3	1614.0	1478.1	1451.7	1414.7
77.5°	3880.0	2025.8	737.7	773.4	798.4	1004.3	1475.4	1462.2	1350.1	1294.6	1281.4
80°	1496.6	886.8	622.9	687.6	703.4	869.7	1293.3	1281.4	1187.7	1116.5	1096.7
82.5°	564.8	464.5	514.7	595.2	589.9	717.9	1095.4	1088.8	997.7	893.4	861.8
85°	261.3	278.5	407.8	490.9	452.7	531.8	876.3	888.2	777.3	653.3	653.3
87.5°	110.9	155.7	289.0	370.8	304.9	359.0	642.7	613.7	563.5	390.6	366.9
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)