

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: P319181

Luminaire Tested: **GAN-SA7D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40063 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

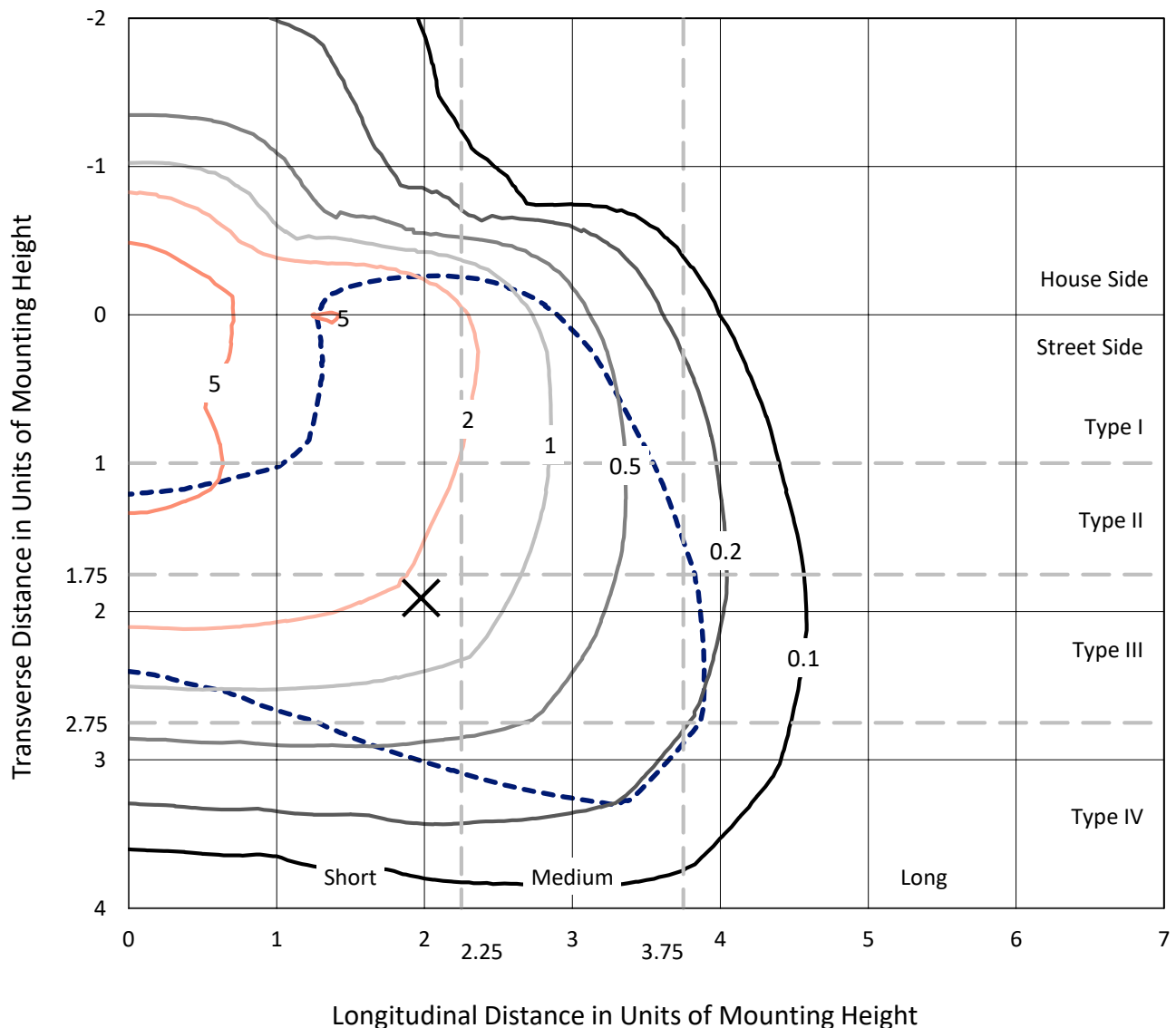
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

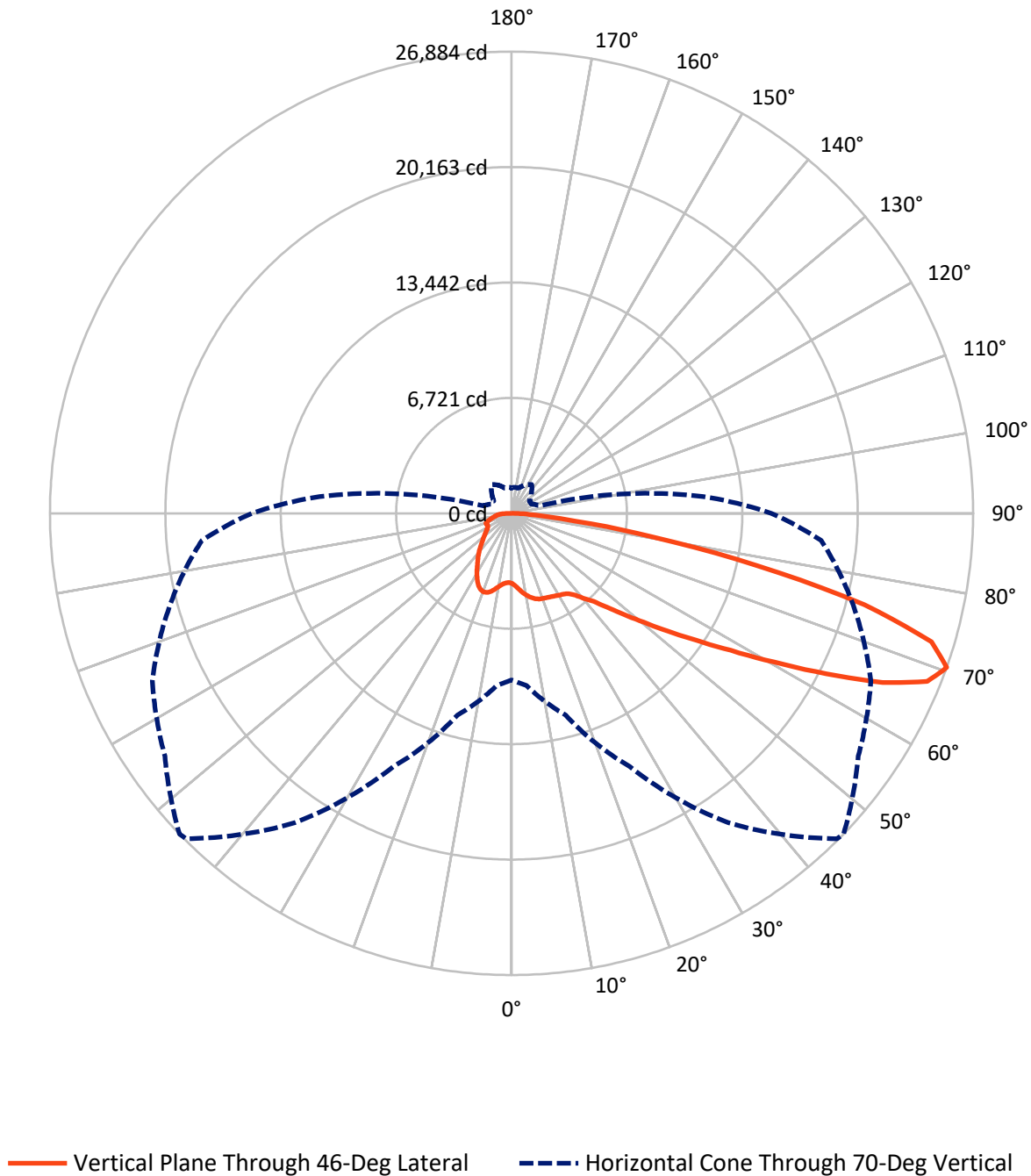
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9182.3	0.0	9182.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	30880.7	0.0	30880.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	40063.0	0.0	40063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	1.0
10°-20°	1386.3	3.5
20°-30°	2311.5	5.8
30°-40°	3280.1	8.2
40°-50°	4824.9	12.0
50°-60°	8171.0	20.4
60°-70°	11598.6	29.0
70°-80°	7046.2	17.6
80°-90°	1028.3	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°	40063.0	100.0
0°-180°	40063.0	100.0

Coefficient of Utilization



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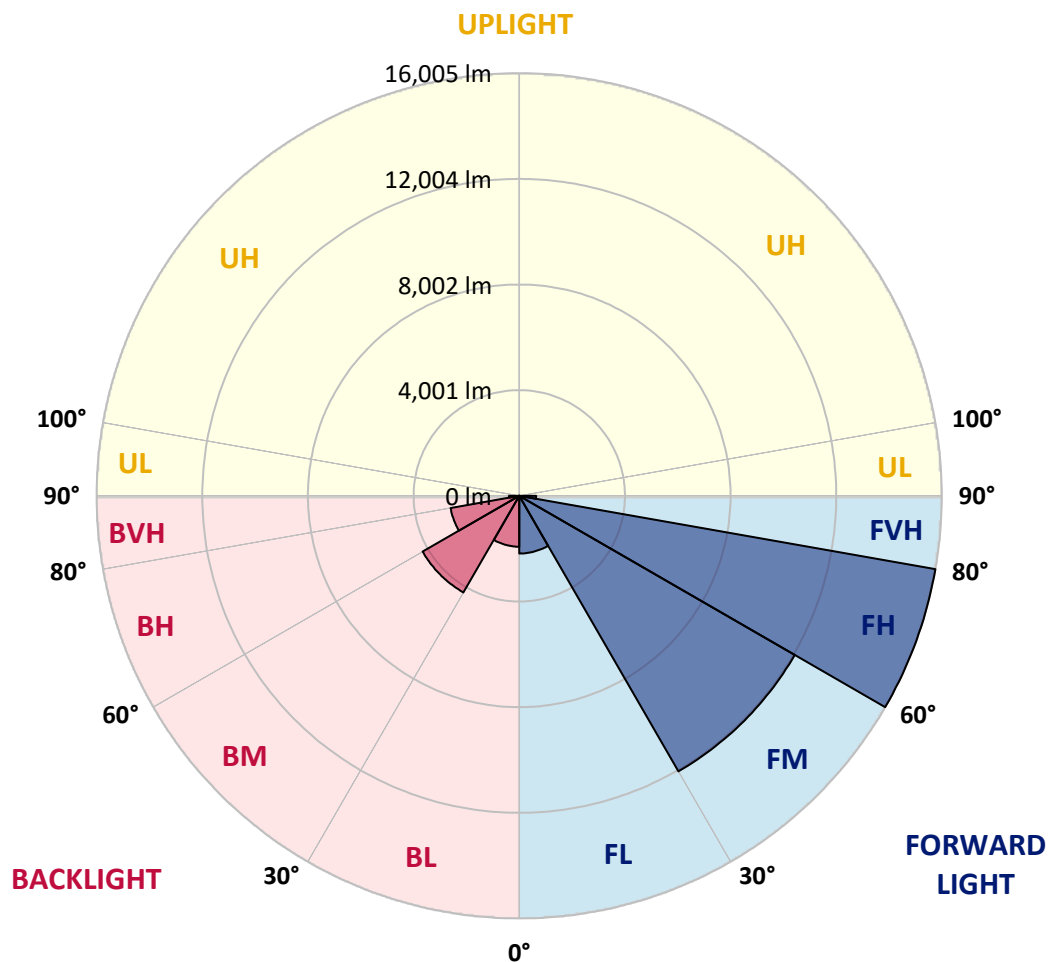
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2186.0	5.5			
FM	(30°-60°)	12049.2	30.1			
FH	(60°-80°)	16004.9	39.9			G5
FVH	(80°-90°)	640.5	1.6			G4/750
BL	(0°-30°)	1927.9	4.8	B3/2500		
BM	(30°-60°)	4226.9	10.6	B3/5000		
BH	(60°-80°)	2639.8	6.6	B4/5000		G4/5000
BVH	(80°-90°)	387.8	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6
2.5°	4285.9	4288.7	4294.1	4280.4	4242.0	4231.1	4227.0	4187.2	4161.2	4122.8	4089.9
5°	4628.7	4631.4	4623.2	4584.8	4499.8	4436.7	4431.3	4340.8	4258.5	4170.8	4104.9
7.5°	4986.5	4990.6	4964.6	4891.9	4772.6	4663.0	4656.1	4532.7	4407.9	4275.0	4176.2
10°	5303.2	5286.8	5244.3	5142.8	5001.6	4867.3	4861.8	4732.9	4588.9	4428.5	4296.9
12.5°	5514.4	5500.7	5445.8	5322.4	5167.5	5044.1	5033.1	4913.9	4774.0	4598.5	4440.9
15°	5630.9	5640.5	5566.5	5426.6	5275.8	5171.6	5162.0	5077.0	4952.3	4775.4	4594.4
17.5°	5646.0	5654.2	5582.9	5444.5	5321.1	5249.8	5245.7	5189.4	5099.0	4928.9	4739.7
20°	5558.3	5563.7	5504.8	5391.0	5310.1	5288.2	5286.8	5262.1	5194.9	5044.1	4860.4
22.5°	5430.8	5434.9	5392.4	5310.1	5282.7	5317.0	5326.6	5317.0	5269.0	5127.8	4955.0
25°	5399.2	5396.5	5352.6	5269.0	5292.3	5364.9	5377.3	5381.4	5348.5	5225.1	5075.7
27.5°	5551.4	5541.8	5458.2	5323.8	5338.9	5426.6	5443.1	5482.9	5462.3	5354.0	5212.8
30°	5991.5	5975.1	5803.7	5532.2	5458.2	5503.4	5524.0	5587.1	5591.2	5500.7	5395.1
32.5°	6734.6	6714.1	6406.9	5921.6	5659.7	5581.6	5600.8	5695.4	5746.1	5676.2	5562.4
35°	7673.8	7650.5	7247.4	6583.8	5997.0	5731.0	5744.7	5820.1	5921.6	5822.9	5672.1
37.5°	8652.7	8596.5	8208.5	7362.6	6533.1	6050.5	6050.5	6060.1	6108.1	5902.4	5800.9
40°	9626.2	9570.0	9219.0	8278.4	7226.8	6553.7	6522.1	6309.6	6271.2	6094.3	6060.1
42.5°	10531.1	10514.6	10307.6	9313.6	8041.2	7048.6	7004.7	6644.1	6652.4	6542.7	6544.1
45°	11493.6	11493.6	11324.9	10358.3	8990.0	7843.8	7799.9	7269.3	7351.6	7300.9	7422.9
47.5°	12279.2	12303.9	12280.6	11447.0	10093.7	8854.3	8774.8	8135.8	8366.2	8540.3	8895.4
50°	13081.3	13119.6	13123.8	12641.1	11427.8	10055.3	9964.8	9286.2	9800.3	10299.4	10997.2
52.5°	14245.3	14331.7	13987.5	13832.6	13062.1	11481.2	11392.1	10765.5	11623.8	12324.4	13526.8
55°	15324.3	15248.9	15003.5	15099.4	14811.5	13104.6	13037.4	12487.6	13655.7	14566.1	16127.7
57.5°	15908.4	15902.9	16149.7	16561.0	16698.1	15106.3	15050.1	14515.4	15946.8	16630.9	18569.6
60°	16593.9	16603.5	17215.0	18148.7	18713.6	17598.9	17574.2	17168.4	18172.0	18558.6	20485.0
62.5°	16689.9	16862.6	17915.6	19522.5	20600.1	20511.0	20565.8	19558.1	20162.8	20096.9	21915.0
65°	15586.2	15813.8	17719.5	19937.9	22475.7	23696.0	23746.7	21961.6	21732.6	21411.8	22426.4
67.5°	13323.9	13661.2	15731.5	19034.4	23094.1	26050.1	26121.4	23824.9	23035.1	21857.4	21195.2
70°	9696.1	10070.4	12154.4	16256.6	21991.7	26802.8	26883.7	24648.9	23084.5	20589.2	18093.8
72.5°	5857.2	6150.6	7868.5	11968.0	18561.4	25431.7	25575.7	23604.1	21075.9	17439.8	13360.9
75°	2572.1	2764.1	3804.7	6896.4	13288.3	21041.6	21221.2	20203.9	17124.5	12674.0	7897.3
77.5°	1095.5	1150.3	1560.3	2995.8	7512.0	14378.3	14625.1	14762.2	11618.3	6896.4	3337.2
80°	682.8	704.7	883.0	1356.0	3515.4	8075.5	8341.5	8685.6	5769.4	2535.1	1165.4
82.5°	415.4	440.1	586.8	819.9	1830.4	3660.7	3788.2	4030.9	2238.9	1095.5	603.3
85°	249.5	267.4	359.2	518.3	1042.0	1439.6	1438.2	1590.4	1054.3	704.7	318.1
87.5°	119.3	133.0	191.9	268.7	525.1	540.2	505.9	573.1	640.3	462.0	160.4
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°	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6
2.5°	4078.9	4073.4	4055.6	4041.9	4039.1	4030.9	4024.1	4028.2	4033.6	4035.0	4035.0
5°	4077.5	4062.4	4039.1	4029.5	4041.9	4058.3	4078.9	4106.3	4122.8	4135.1	4143.3
7.5°	4143.3	4114.5	4088.5	4083.0	4107.7	4151.6	4198.2	4255.8	4295.5	4322.9	4328.4
10°	4253.0	4217.4	4191.3	4196.8	4240.7	4303.7	4369.6	4443.6	4503.9	4540.9	4543.7
12.5°	4379.2	4344.9	4320.2	4343.5	4416.2	4493.0	4561.5	4625.9	4680.8	4717.8	4717.8
15°	4524.5	4499.8	4471.0	4524.5	4623.2	4691.8	4720.5	4752.1	4782.2	4809.7	4804.2
17.5°	4664.3	4641.0	4625.9	4689.0	4791.8	4823.4	4804.2	4780.9	4780.9	4796.0	4798.7
20°	4785.0	4764.4	4774.0	4835.7	4889.2	4856.3	4785.0	4711.0	4680.8	4689.0	4697.2
22.5°	4890.6	4881.0	4909.8	4938.5	4900.2	4785.0	4653.4	4553.3	4516.3	4513.5	4516.3
25°	5014.0	5012.6	5048.2	4996.1	4826.1	4613.6	4436.7	4339.4	4318.8	4335.3	4362.7
27.5°	5167.5	5182.6	5200.4	5009.8	4675.3	4354.5	4174.9	4107.7	4128.3	4168.0	4194.1
30°	5363.6	5404.7	5366.3	4975.6	4458.7	4058.3	3886.9	3867.8	3924.0	3980.2	4007.6
32.5°	5554.2	5618.6	5525.4	4886.4	4179.0	3744.4	3611.4	3605.9	3674.4	3729.3	3767.7
35°	5707.7	5835.2	5644.6	4709.6	3855.4	3455.1	3357.7	3320.7	3345.4	3409.8	3453.7
37.5°	5907.9	6120.4	5726.9	4439.5	3504.4	3216.5	3102.7	3017.7	2995.8	3021.8	3043.7
40°	6274.0	6555.0	5765.3	4062.4	3161.7	2977.9	2862.8	2738.0	2651.6	2588.6	2589.9
42.5°	6871.7	7121.3	5740.6	3604.5	2844.9	2744.9	2614.6	2470.6	2330.8	2188.2	2177.2
45°	7842.4	7963.1	5666.6	3119.2	2566.6	2500.8	2378.8	2234.8	2048.4	1886.6	1871.5
47.5°	9395.9	9128.5	5551.4	2695.5	2321.2	2293.8	2181.4	2015.5	1818.0	1687.8	1676.8
50°	11514.1	10810.8	5495.2	2358.2	2104.6	2112.8	2020.9	1845.4	1659.0	1563.0	1552.0
52.5°	14047.8	12770.0	5603.5	2097.7	1930.4	1959.2	1890.7	1726.2	1569.9	1494.5	1483.5
55°	16676.2	14799.2	5720.0	1908.5	1765.9	1822.1	1798.8	1663.1	1521.9	1451.9	1442.4
57.5°	18926.1	16314.2	5487.0	1755.0	1619.2	1707.0	1727.5	1623.3	1497.2	1434.1	1423.2
60°	20342.4	16924.3	4875.5	1611.0	1502.7	1615.1	1686.4	1612.4	1506.8	1501.3	1493.1
62.5°	21014.2	16870.9	3958.2	1497.2	1430.0	1575.3	1716.6	1674.1	1616.5	1665.8	1669.9
65°	20712.6	16064.7	2947.8	1421.8	1377.9	1590.4	1807.1	1790.6	1648.0	1697.4	1704.2
67.5°	18727.3	14141.1	2182.7	1356.0	1320.3	1632.9	1971.6	1829.0	1586.3	1622.0	1600.0
70°	15136.5	11211.1	1683.7	1281.9	1261.4	1627.4	2045.6	1805.7	1519.1	1527.4	1468.4
72.5°	10437.9	7645.0	1369.7	1213.4	1176.4	1483.5	1993.5	1748.1	1462.9	1399.8	1321.7
75°	5676.2	4103.6	1164.0	1142.1	1026.9	1302.5	1897.5	1707.0	1412.2	1328.6	1284.7
77.5°	2233.5	1702.9	1010.5	1044.7	898.0	1150.3	1790.6	1628.8	1342.3	1232.6	1210.6
80°	911.8	869.2	837.7	903.5	771.9	1006.4	1661.7	1537.0	1258.6	1143.5	1099.6
82.5°	516.9	540.2	651.3	712.9	626.6	926.8	1600.0	1462.9	1158.5	1024.2	972.1
85°	264.6	316.7	453.8	511.4	460.7	788.4	1473.9	1280.6	929.6	784.2	788.4
87.5°	127.5	176.9	286.6	320.8	298.9	570.4	1101.0	928.2	723.9	573.1	555.3
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)