

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: P319203

Luminaire Tested: **GAN-SA9B-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319203
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-SA9B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40314 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 374
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

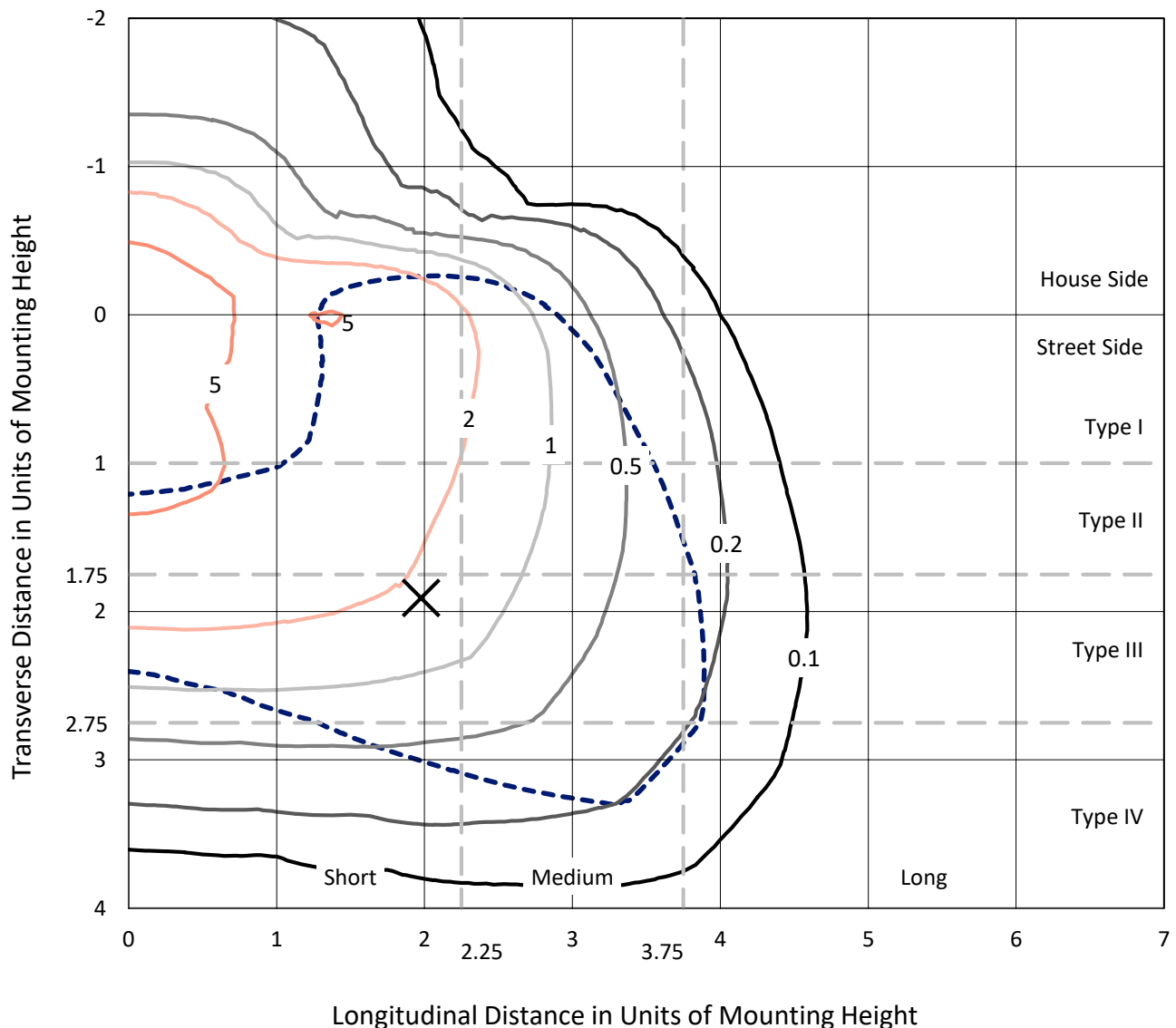


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Iso-Footcandle Lines of Horizontal Illumination

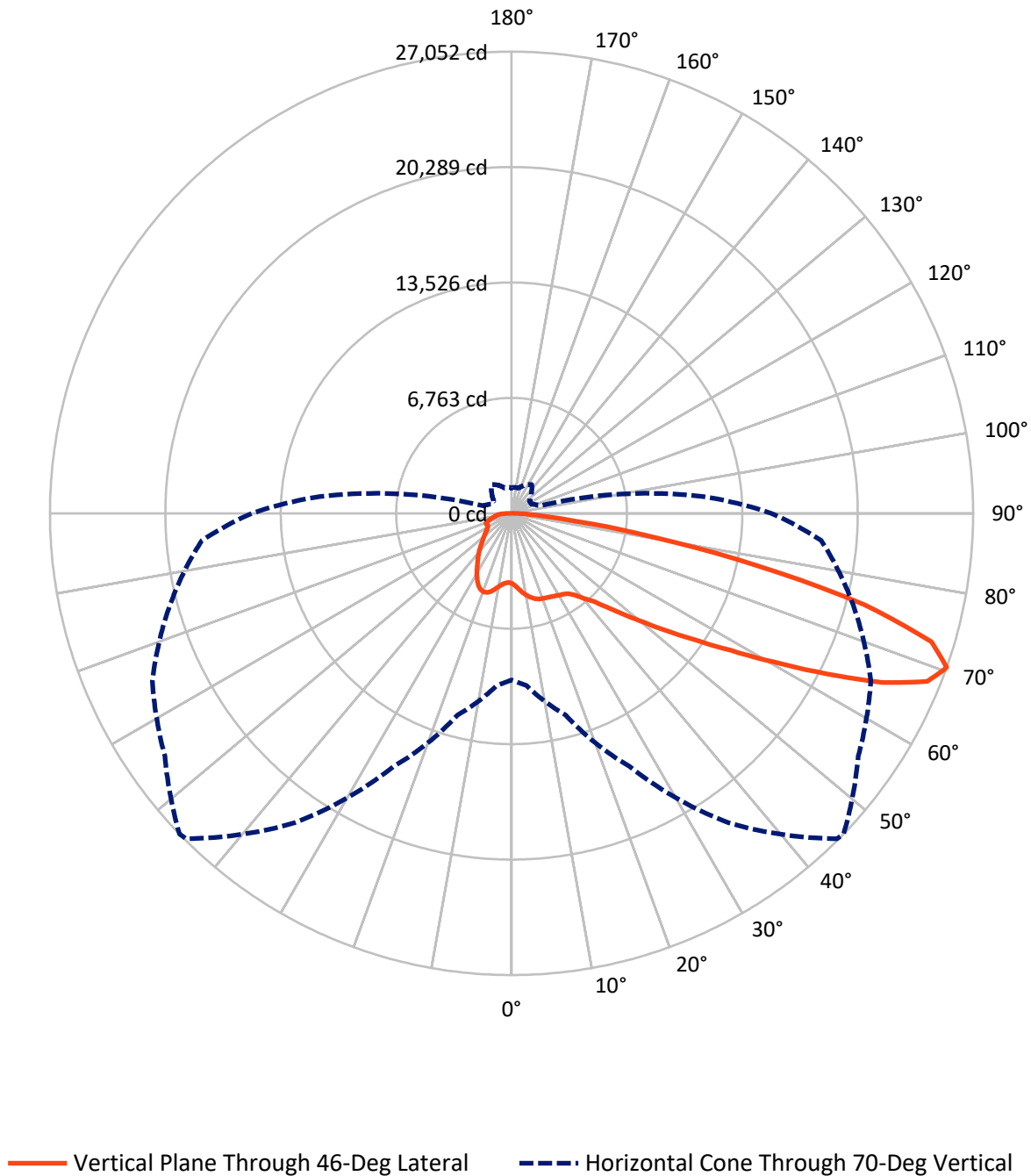
✕ Max cd
 - - - 1/2 Max cd



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	9239.8	0.0	9239.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31074.2	0.0	31074.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	40314.0	0.0	40314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.0
10°-20°	1395.0	3.5
20°-30°	2326.0	5.8
30°-40°	3300.7	8.2
40°-50°	4855.1	12.0
50°-60°	8222.2	20.4
60°-70°	11671.2	29.0
70°-80°	7090.4	17.6
80°-90°	1034.8	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°	40314.0	100.0
0°-180°	40314.0	100.0

Coefficient of Utilization



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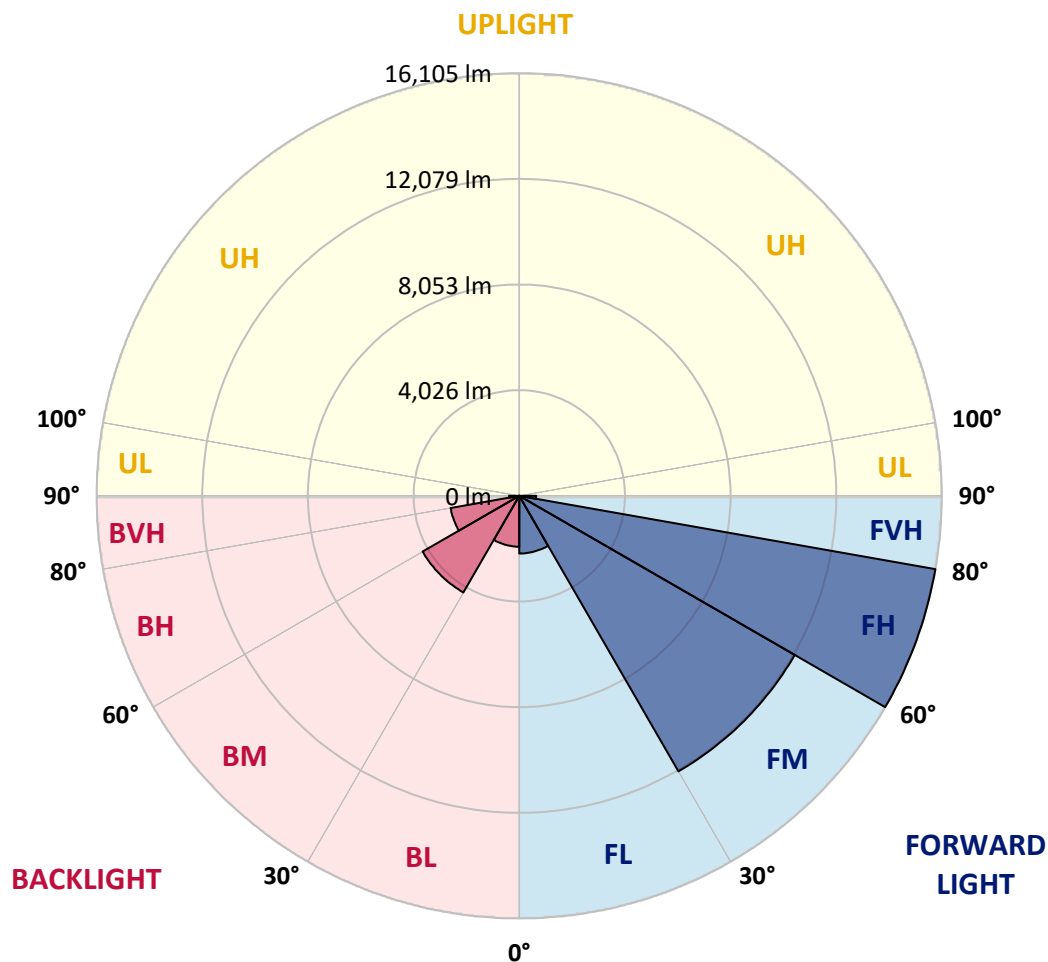
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2199.7	5.5			
FM	(30°-60°)	12124.7	30.1			
FH	(60°-80°)	16105.2	39.9			G5
FVH	(80°-90°)	644.6	1.6			G4/750
BL	(0°-30°)	1939.9	4.8	B3/2500		
BM	(30°-60°)	4253.4	10.6	B3/5000		
BH	(60°-80°)	2656.4	6.6	B4/5000		G4/5000
BVH	(80°-90°)	390.2	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°	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2
2.5°	4312.8	4315.5	4321.1	4307.3	4268.6	4257.6	4253.5	4213.4	4187.2	4148.6	4115.5
5°	4657.7	4660.4	4652.2	4613.5	4528.0	4464.5	4459.0	4368.0	4285.2	4196.9	4130.7
7.5°	5017.8	5021.9	4995.7	4922.6	4802.5	4692.2	4685.3	4561.1	4435.6	4301.7	4202.4
10°	5336.5	5319.9	5277.1	5175.1	5033.0	4897.7	4892.2	4762.5	4617.7	4456.3	4323.8
12.5°	5548.9	5535.1	5480.0	5355.8	5199.9	5075.7	5064.7	4944.7	4803.9	4627.3	4468.7
15°	5666.2	5675.9	5601.4	5460.6	5308.9	5204.0	5194.4	5108.8	4983.3	4805.3	4623.2
17.5°	5681.4	5689.7	5617.9	5478.6	5354.4	5282.7	5278.5	5222.0	5130.9	4959.8	4769.4
20°	5593.1	5598.6	5539.3	5424.8	5343.4	5321.3	5319.9	5295.1	5227.5	5075.7	4890.8
22.5°	5464.8	5468.9	5426.1	5343.4	5315.8	5350.3	5359.9	5350.3	5302.0	5159.9	4986.0
25°	5433.0	5430.3	5386.1	5302.0	5325.4	5398.6	5411.0	5415.1	5382.0	5257.8	5107.5
27.5°	5586.2	5576.5	5492.4	5357.2	5372.3	5460.6	5477.2	5517.2	5496.5	5387.5	5245.4
30°	6029.1	6012.5	5840.0	5566.9	5492.4	5537.9	5558.6	5622.1	5626.2	5535.1	5428.9
32.5°	6776.8	6756.1	6447.1	5958.7	5695.2	5616.5	5635.9	5731.1	5782.1	5711.7	5597.2
35°	7721.9	7698.4	7292.8	6625.1	6034.6	5766.9	5780.7	5856.6	5958.7	5859.4	5707.6
37.5°	8706.9	8650.4	8259.9	7408.7	6574.0	6088.4	6088.4	6098.0	6146.3	5939.4	5837.3
40°	9686.5	9629.9	9276.7	8330.3	7272.1	6594.7	6563.0	6349.1	6310.5	6132.5	6098.0
42.5°	10597.1	10580.5	10372.2	9371.9	8091.6	7092.8	7048.6	6685.8	6694.0	6583.7	6585.1
45°	11565.6	11565.6	11395.9	10423.2	9046.3	7893.0	7848.8	7314.9	7397.7	7346.6	7469.4
47.5°	12356.1	12380.9	12357.5	11518.7	10157.0	8909.8	8829.7	8186.8	8418.6	8593.8	8951.1
50°	13163.2	13201.8	13206.0	12720.3	11499.4	10118.3	10027.3	9344.3	9861.7	10363.9	11066.1
52.5°	14334.5	14421.4	14075.2	13919.3	13143.9	11553.2	11463.5	10833.0	11696.6	12401.6	13611.6
55°	15420.3	15344.4	15097.5	15194.0	14904.3	13186.7	13119.1	12565.8	13741.3	14657.4	16228.8
57.5°	16008.0	16002.5	16250.9	16664.7	16802.7	15200.9	15144.4	14606.3	16046.7	16735.1	18685.9
60°	16697.9	16707.5	17322.8	18262.4	18830.8	17709.1	17684.3	17275.9	18285.8	18674.9	20613.3
62.5°	16794.4	16968.3	18027.8	19644.8	20729.2	20639.5	20694.7	19680.7	20289.1	20222.9	22052.3
65°	15683.8	15912.8	17830.6	20062.8	22616.5	23844.4	23895.5	22099.2	21868.8	21545.9	22566.9
67.5°	13407.4	13746.8	15830.1	19153.6	23238.8	26213.3	26285.0	23974.1	23179.4	21994.3	21328.0
70°	9756.9	10133.5	12230.6	16358.5	22129.5	26970.7	27052.1	24803.3	23229.1	20718.2	18207.2
72.5°	5893.8	6189.1	7917.8	12042.9	18677.7	25591.1	25735.9	23752.0	21207.9	17549.1	13444.7
75°	2588.2	2781.4	3828.5	6939.6	13371.5	21173.4	21354.2	20330.5	17231.8	12753.5	7946.8
77.5°	1102.3	1157.5	1570.0	3014.5	7559.1	14468.4	14716.7	14854.7	11691.1	6939.6	3358.1
80°	687.1	709.1	888.5	1364.5	3537.4	8126.1	8393.8	8740.1	5805.6	2551.0	1172.7
82.5°	418.0	442.9	590.5	825.0	1841.8	3683.7	3812.0	4056.2	2253.0	1102.3	607.0
85°	251.1	269.0	361.5	521.5	1048.5	1448.6	1447.2	1600.4	1060.9	709.1	320.1
87.5°	120.0	133.8	193.2	270.4	528.4	543.6	509.1	576.7	644.3	464.9	161.4
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°	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2
2.5°	4104.4	4098.9	4081.0	4067.2	4064.4	4056.2	4049.3	4053.4	4058.9	4060.3	4060.3
5°	4103.1	4087.9	4064.4	4054.8	4067.2	4083.8	4104.4	4132.0	4148.6	4161.0	4169.3
7.5°	4169.3	4140.3	4114.1	4108.6	4133.4	4177.6	4224.5	4282.4	4322.4	4350.0	4355.5
10°	4279.7	4243.8	4217.6	4223.1	4267.2	4330.7	4396.9	4471.4	4532.1	4569.4	4572.1
12.5°	4406.6	4372.1	4347.3	4370.7	4443.8	4521.1	4590.1	4654.9	4710.1	4747.4	4747.4
15°	4552.8	4528.0	4499.0	4552.8	4652.2	4721.2	4750.1	4781.9	4812.2	4839.8	4834.3
17.5°	4693.6	4670.1	4654.9	4718.4	4821.9	4853.6	4834.3	4810.8	4810.8	4826.0	4828.8
20°	4815.0	4794.3	4803.9	4866.0	4919.8	4886.7	4815.0	4740.5	4710.1	4718.4	4726.7
22.5°	4921.2	4911.5	4940.5	4969.5	4930.9	4815.0	4682.5	4581.8	4544.6	4541.8	4544.6
25°	5045.4	5044.0	5079.9	5027.4	4856.4	4642.5	4464.5	4366.6	4345.9	4362.4	4390.0
27.5°	5199.9	5215.1	5233.0	5041.2	4704.6	4381.8	4201.0	4133.4	4154.1	4194.1	4220.3
30°	5397.2	5438.6	5399.9	5006.7	4486.6	4083.8	3911.3	3892.0	3948.5	4005.1	4032.7
32.5°	5588.9	5653.8	5560.0	4917.1	4205.2	3767.8	3634.0	3628.5	3697.5	3752.6	3791.3
35°	5743.5	5871.8	5680.0	4739.1	3879.6	3476.7	3378.8	3341.5	3366.3	3431.2	3475.3
37.5°	5944.9	6158.7	5762.8	4467.3	3526.4	3236.7	3122.1	3036.6	3014.5	3040.7	3062.8
40°	6313.3	6596.1	5801.4	4087.9	3181.5	2996.6	2880.7	2755.2	2668.2	2604.8	2606.2
42.5°	6914.8	7165.9	5776.6	3627.1	2862.8	2762.1	2631.0	2486.1	2345.4	2201.9	2190.9
45°	7891.6	8013.0	5702.1	3138.7	2582.7	2516.5	2393.7	2248.8	2061.2	1898.4	1883.2
47.5°	9454.7	9185.7	5586.2	2712.4	2335.7	2308.1	2195.0	2028.1	1829.4	1698.3	1687.3
50°	11586.3	10878.5	5529.6	2373.0	2117.8	2126.0	2033.6	1857.0	1669.4	1572.8	1561.8
52.5°	14135.9	12850.0	5638.6	2110.9	1942.5	1971.5	1902.5	1737.0	1579.7	1503.8	1492.8
55°	16780.6	14891.9	5755.9	1920.5	1777.0	1833.6	1810.1	1673.5	1531.4	1461.0	1451.4
57.5°	19044.6	16416.4	5521.3	1765.9	1629.4	1717.7	1738.4	1633.5	1506.6	1443.1	1432.1
60°	20469.8	17030.4	4906.0	1621.1	1512.1	1625.2	1697.0	1622.5	1516.2	1510.7	1502.4
62.5°	21145.8	16976.5	3983.0	1506.6	1439.0	1585.2	1727.3	1684.5	1626.6	1676.3	1680.4
65°	20842.3	16165.3	2966.2	1430.7	1386.5	1600.4	1818.4	1801.8	1658.3	1708.0	1714.9
67.5°	18844.6	14229.7	2196.4	1364.5	1328.6	1643.2	1983.9	1840.4	1596.3	1632.1	1610.0
70°	15231.3	11281.4	1694.2	1290.0	1269.3	1637.6	2058.4	1817.0	1528.6	1536.9	1477.6
72.5°	10503.2	7692.9	1378.3	1221.0	1183.7	1492.8	2006.0	1759.0	1472.1	1408.6	1330.0
75°	5711.7	4129.3	1171.3	1149.2	1033.4	1310.7	1909.4	1717.7	1421.0	1336.9	1292.7
77.5°	2247.4	1713.5	1016.8	1051.3	903.7	1157.5	1801.8	1639.0	1350.7	1240.3	1218.2
80°	917.5	874.7	843.0	909.2	776.7	1012.7	1672.1	1546.6	1266.5	1150.6	1106.5
82.5°	520.1	543.6	655.3	717.4	630.5	932.6	1610.0	1472.1	1165.8	1030.6	978.2
85°	266.3	318.7	456.7	514.6	463.6	793.3	1483.1	1288.6	935.4	789.2	793.3
87.5°	128.3	178.0	288.3	322.8	300.8	573.9	1107.9	934.0	728.5	576.7	558.8
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)