

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: P319842

Luminaire Tested: **GAN-SA8B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36398 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

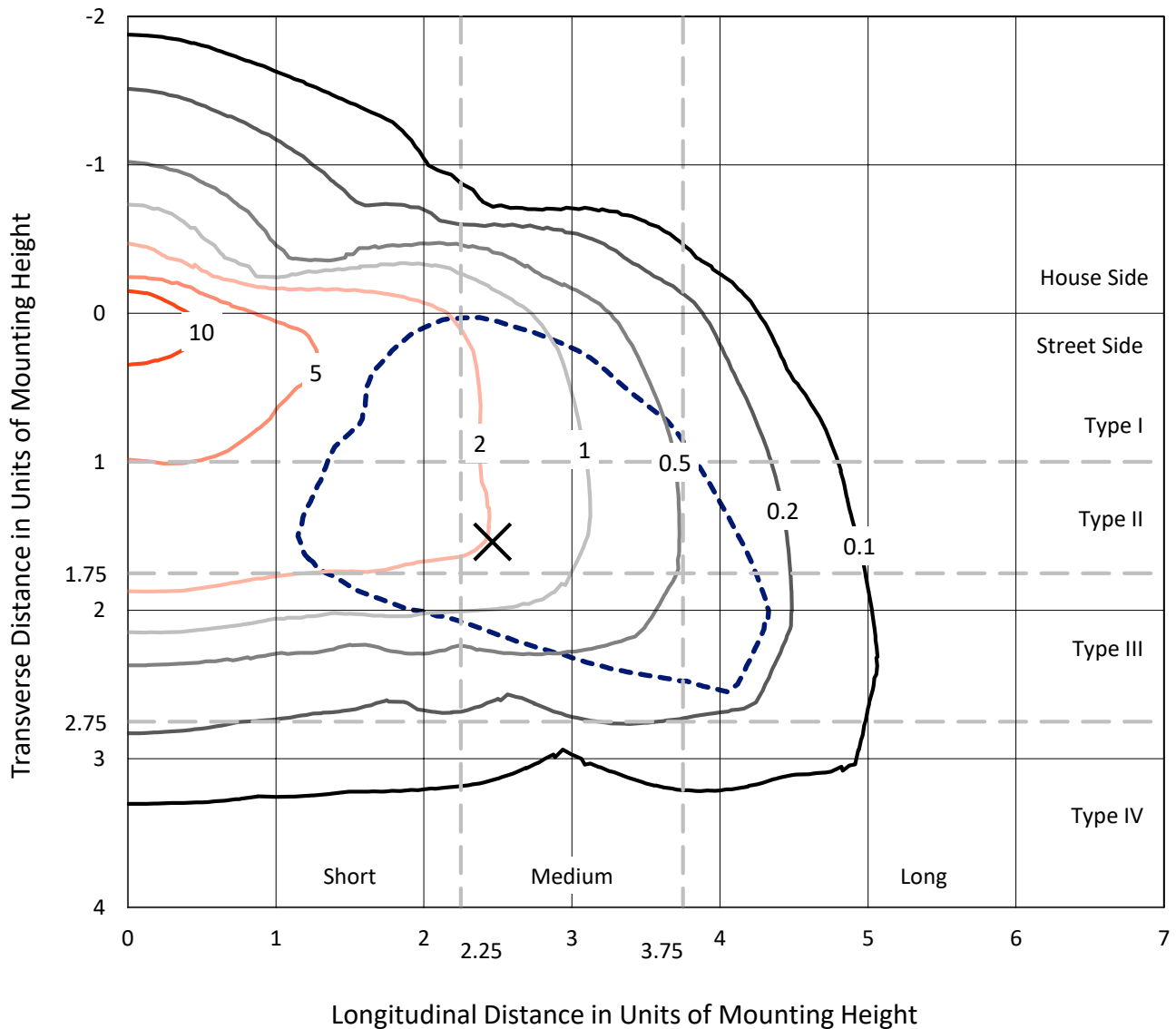
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

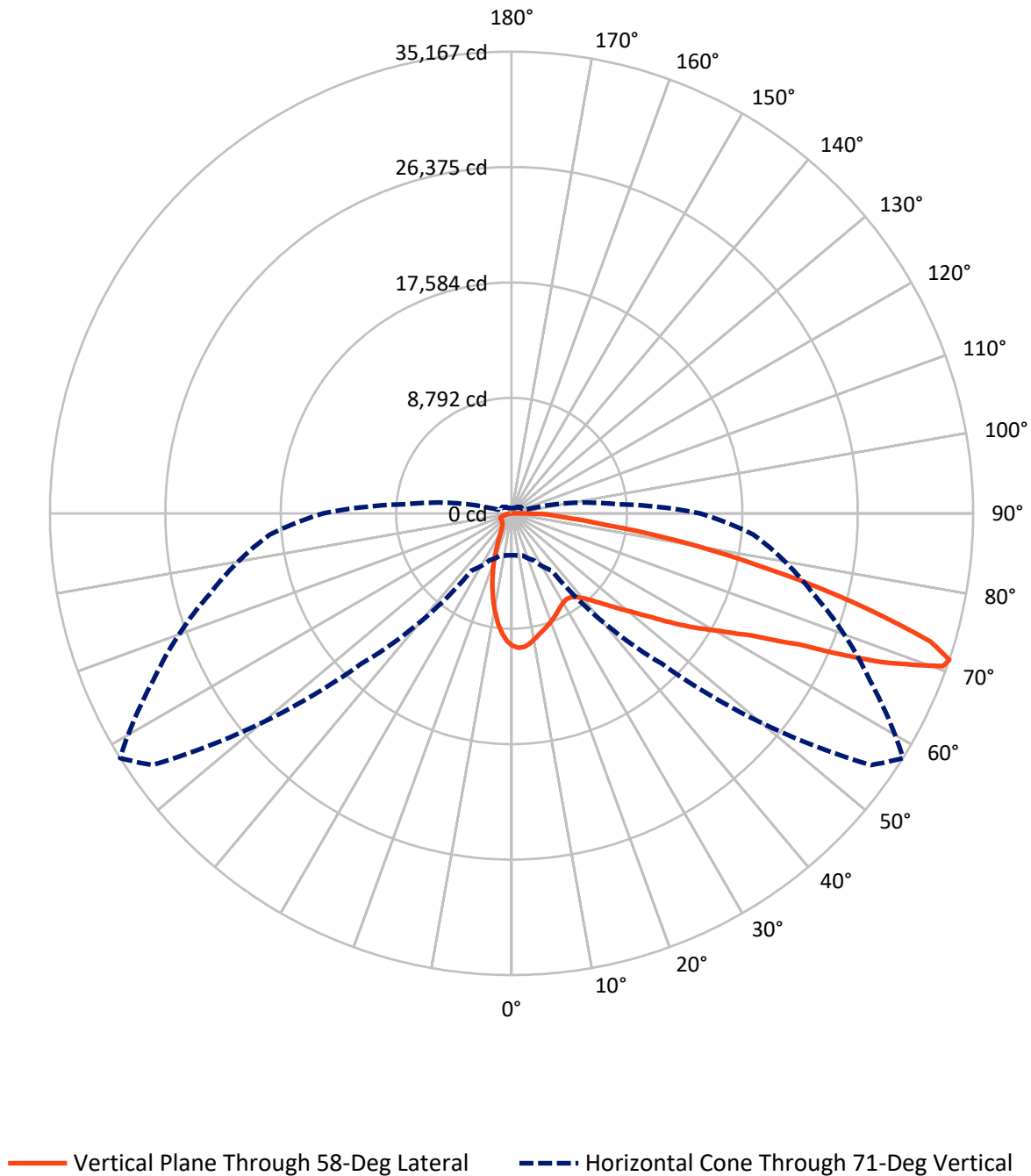
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	5441.8	0.0	5441.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	30956.2	0.0	30956.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	36398.0	0.0	36398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.0	2.4
10°-20°	1934.6	5.3
20°-30°	2458.6	6.8
30°-40°	3131.8	8.6
40°-50°	4441.0	12.2
50°-60°	6872.7	18.9
60°-70°	9356.3	25.7
70°-80°	6241.7	17.1
80°-90°	1091.3	3.0
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°	36398.0	100.0
0°-180°	36398.0	100.0

Coefficient of Utilization



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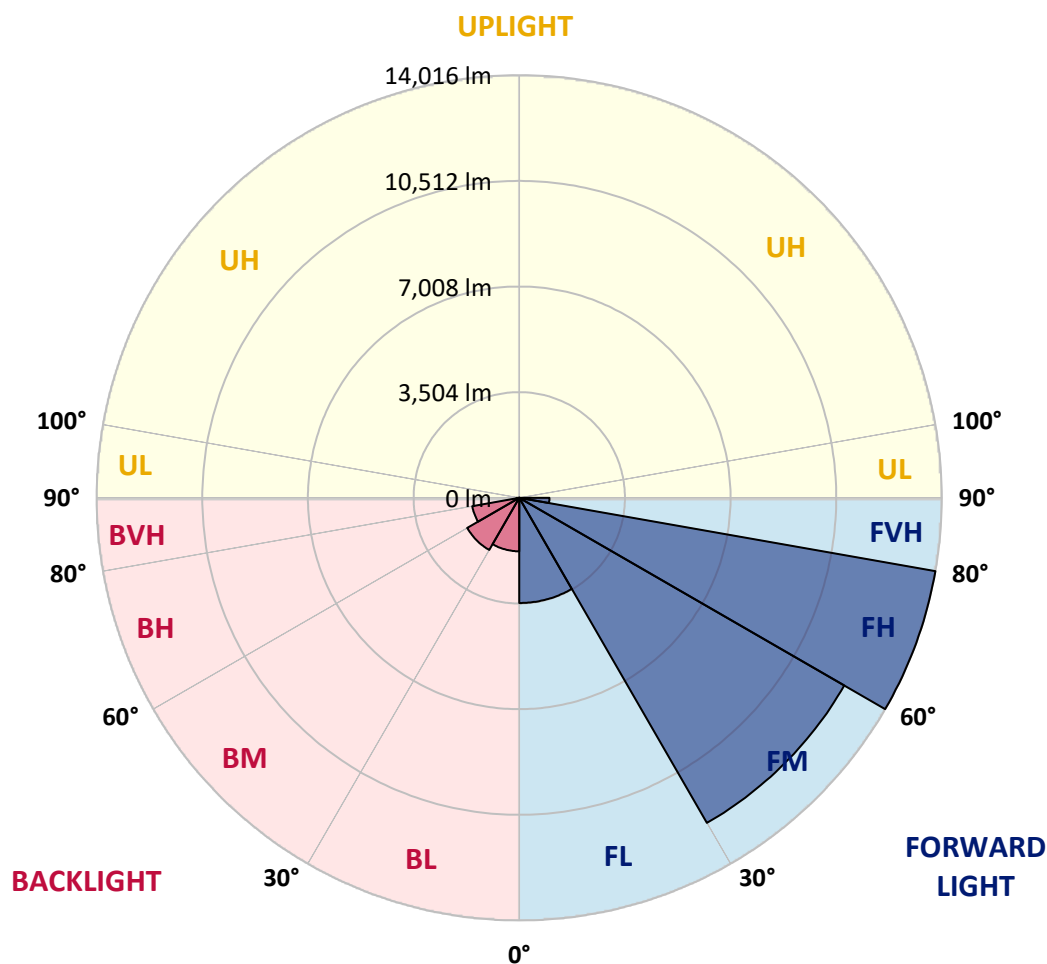
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3489.3	9.6			
FM	(30°-60°)	12449.9	34.2			
FH	(60°-80°)	14016.4	38.5			G5
FVH	(80°-90°)	1000.6	2.7			G5
BL	(0°-30°)	1773.8	4.9	B3/2500		
BM	(30°-60°)	1995.6	5.5	B2/2500		
BH	(60°-80°)	1581.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	90.7	0.2			G1/100
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°	58°	65°	75°	85°
0°	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7
2.5°	10352.2	10338.3	10343.3	10333.2	10309.1	10285.0	10249.5	10255.8	10206.4	10132.9	10041.6
5°	10156.9	10151.9	10189.9	10211.5	10229.2	10215.3	10205.1	10217.8	10145.5	10044.1	9885.6
7.5°	9747.4	9691.6	9739.8	9812.1	9880.6	9932.5	10001.0	10009.9	9964.2	9857.7	9649.8
10°	9165.5	9112.2	9183.2	9296.1	9433.0	9557.2	9695.4	9720.8	9729.7	9633.3	9381.0
12.5°	8562.0	8521.4	8592.4	8750.9	8977.8	9169.3	9389.9	9427.9	9506.5	9441.9	9132.5
15°	8021.8	8006.6	8092.8	8248.8	8510.0	8802.9	9121.1	9190.8	9324.0	9302.4	8938.5
17.5°	7555.3	7551.5	7617.4	7780.9	8070.0	8440.2	8853.6	8971.5	9169.3	9194.6	8778.8
20°	7207.9	7200.3	7245.9	7366.4	7664.3	8084.0	8564.5	8726.8	9012.1	9100.8	8613.9
22.5°	7021.5	7020.2	7021.5	7078.5	7322.0	7712.5	8283.0	8480.8	8858.6	9026.0	8431.4
25°	6989.8	6986.0	6958.1	6951.8	7090.0	7401.9	8004.1	8222.2	8712.8	8974.0	8257.7
27.5°	7072.2	7077.3	7040.5	6980.9	7008.8	7197.7	7761.9	7995.2	8596.2	8963.9	8137.2
30°	7243.4	7240.8	7209.1	7147.0	7092.5	7121.7	7589.5	7822.8	8517.6	9008.3	8054.8
32.5°	7432.3	7446.2	7439.9	7405.7	7324.5	7207.9	7537.5	7765.7	8494.8	9114.8	8019.3
35°	7659.2	7674.4	7720.1	7746.7	7651.6	7464.0	7649.1	7846.9	8560.7	9315.1	8076.4
37.5°	7874.8	7914.1	8042.1	8155.0	8073.8	7864.6	7945.8	8086.5	8764.8	9630.8	8229.8
40°	8123.3	8157.5	8366.7	8606.3	8593.7	8376.9	8423.8	8517.6	9124.9	10083.4	8507.4
42.5°	8368.0	8436.4	8739.5	9079.3	9176.9	8985.4	9060.2	9109.7	9632.0	10683.1	8991.8
45°	8693.8	8767.4	9188.3	9597.8	9826.0	9718.3	9837.4	9856.5	10269.8	11499.6	9695.4
47.5°	9187.0	9270.7	9761.4	10191.2	10539.8	10551.3	10747.8	10740.2	11066.0	12434.1	10581.7
50°	9955.4	10075.8	10477.7	10879.6	11303.1	11538.9	11801.4	11764.6	12020.7	13429.3	11602.3
52.5°	10962.0	11017.8	11315.8	11612.5	12138.6	12667.3	13043.9	13010.9	13103.5	14452.5	12761.2
55°	12005.5	12047.3	12170.3	12332.6	13040.1	13902.3	14698.5	14646.5	14411.9	15515.0	13906.1
57.5°	12943.7	13028.7	13113.6	13180.8	13947.9	15192.9	16391.1	16394.9	15832.0	16661.1	15089.0
60°	13089.5	13164.3	13726.0	14256.0	15501.0	16914.7	18202.9	18164.8	17301.4	17904.9	16407.6
62.5°	11570.6	11739.3	12677.5	14087.4	16997.1	20064.1	20514.2	20467.3	19058.7	19437.8	17943.0
65°	8291.9	8483.4	9615.6	11734.2	16271.9	23534.3	24685.5	24054.1	21455.0	21323.1	19740.8
67.5°	4783.7	4829.3	5320.0	7021.5	12389.7	23715.6	31049.0	30165.3	25176.2	23462.0	20620.7
70°	3537.4	3536.1	3652.7	4320.9	6704.5	19355.4	34075.4	34867.8	29093.9	24165.7	19376.9
71°	3198.8	3202.7	3333.2	3932.9	5309.9	16200.9	33432.6	35167.1	30126.0	23818.3	18476.7
72.5°	2736.1	2748.8	2930.1	3527.2	4466.7	11172.5	30663.6	33371.7	30615.4	22961.2	17068.1
75°	2075.5	2104.7	2355.7	2973.2	4082.6	5666.1	22504.8	26648.2	27197.2	20260.6	12682.6
77.5°	1480.9	1513.8	1797.8	2500.2	3881.0	4270.2	15071.2	19437.8	20014.7	12984.3	5720.7
80°	935.7	975.0	1189.3	1989.3	3646.4	4054.7	9471.0	13065.5	10913.9	4154.8	1455.5
82.5°	549.0	579.4	737.9	1299.6	2978.2	3905.1	5572.3	7242.1	4247.4	1255.2	661.8
85°	318.2	332.2	460.2	827.9	2163.0	3685.7	4094.0	4048.3	1843.5	613.7	313.2
87.5°	148.3	164.8	272.6	432.3	1200.7	2671.4	3235.6	2795.7	1146.2	287.8	147.1
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°	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7	10084.7
2.5°	9997.2	9975.6	9885.6	9805.7	9722.1	9613.0	9492.6	9477.4	9403.8	9417.8	9392.4
5°	9799.4	9744.9	9528.1	9331.6	9099.5	8891.6	8665.9	8562.0	8412.4	8402.2	8364.2
7.5°	9516.7	9415.2	9079.3	8706.5	8333.7	7978.7	7627.5	7396.8	7161.0	7060.8	7051.9
10°	9198.4	9026.0	8531.5	7980.0	7442.4	6923.9	6421.8	6050.3	5715.6	5557.1	5550.8
12.5°	8896.7	8641.8	7963.5	7212.9	6477.6	5805.6	5117.1	4629.0	4209.3	4068.6	4009.0
15°	8640.6	8281.8	7410.7	6450.9	5558.4	4625.2	3841.7	3328.2	2940.2	2805.8	2780.5
17.5°	8392.1	7930.6	6844.0	5681.3	4602.4	3576.7	2791.9	2410.2	2203.6	2149.0	2147.8
20°	8144.8	7569.2	6251.9	4894.0	3678.1	2675.2	2146.5	1975.3	1905.6	1899.3	1889.1
22.5°	7864.6	7186.3	5629.4	4104.1	2870.5	2103.4	1824.5	1756.0	1747.1	1770.0	1770.0
25°	7602.2	6806.0	4998.0	3330.7	2232.7	1754.7	1629.2	1615.3	1639.4	1679.9	1683.7
27.5°	7357.5	6439.5	4381.8	2643.5	1789.0	1545.5	1493.6	1510.0	1553.1	1600.1	1601.3
30°	7155.9	6093.4	3783.3	2083.1	1511.3	1389.6	1380.7	1413.7	1460.6	1497.4	1506.2
32.5°	6999.9	5798.0	3205.2	1674.9	1330.0	1272.9	1280.6	1308.4	1337.6	1357.9	1371.8
35°	6927.7	5544.4	2671.4	1412.4	1214.6	1182.9	1193.1	1208.3	1221.0	1236.2	1247.6
37.5°	6940.3	5347.9	2194.7	1248.9	1137.3	1120.8	1120.8	1120.8	1120.8	1128.4	1129.7
40°	7058.3	5235.1	1806.7	1144.9	1085.3	1067.6	1053.6	1040.9	1030.8	1035.9	1033.3
42.5°	7360.0	5224.9	1522.7	1079.0	1043.5	1014.3	986.4	968.7	956.0	961.0	963.6
45°	7872.2	5351.7	1331.3	1032.1	1004.2	959.8	924.3	905.3	896.4	912.9	915.4
47.5°	8535.3	5628.1	1214.6	997.8	967.4	909.1	871.0	853.3	855.8	879.9	886.2
50°	9389.9	6076.9	1158.8	976.3	942.0	866.0	826.7	811.4	819.0	853.3	860.9
52.5°	10328.1	6723.5	1165.2	969.9	925.5	834.3	792.4	774.7	787.4	819.0	825.4
55°	11410.9	7500.7	1270.4	978.8	901.5	814.0	764.5	734.1	744.2	773.4	778.5
57.5°	12614.1	8390.8	1482.1	976.3	871.0	795.0	735.4	689.7	697.3	715.1	720.2
60°	13866.8	9466.0	1810.5	983.9	857.1	772.1	696.1	639.0	636.5	651.7	654.2
62.5°	15370.5	10709.7	2185.8	988.9	866.0	743.0	644.1	588.3	580.7	584.5	587.0
65°	16919.8	11609.9	2045.1	968.7	893.9	718.9	598.4	538.8	524.9	522.4	523.6
67.5°	16968.0	10645.1	1434.0	928.1	905.3	706.2	564.2	497.0	474.2	465.3	464.0
70°	15217.0	8648.2	1117.0	885.0	859.6	685.9	532.5	462.8	428.5	414.6	413.3
71°	14362.5	7961.0	1058.7	863.4	825.4	665.6	518.6	447.6	412.1	396.8	394.3
72.5°	13022.3	7136.9	987.7	829.2	759.5	613.7	491.9	426.0	389.2	371.5	367.7
75°	9345.5	4667.0	848.2	739.2	628.9	489.4	431.1	382.9	351.2	329.6	327.1
77.5°	3600.8	1857.4	641.5	614.9	481.8	382.9	355.0	330.9	308.1	286.5	285.3
80°	1113.2	830.5	467.8	462.8	348.7	285.3	276.4	270.1	261.2	238.4	233.3
82.5°	594.6	476.7	322.0	299.2	228.2	190.2	200.3	202.9	204.1	180.0	177.5
85°	284.0	252.3	181.3	169.9	133.1	106.5	123.0	133.1	134.4	110.3	102.7
87.5°	135.7	131.9	84.9	64.7	49.4	35.5	43.1	53.3	58.3	41.8	36.8
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)