

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: P319513

Luminaire Tested: **GAN-SA9A-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32432 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

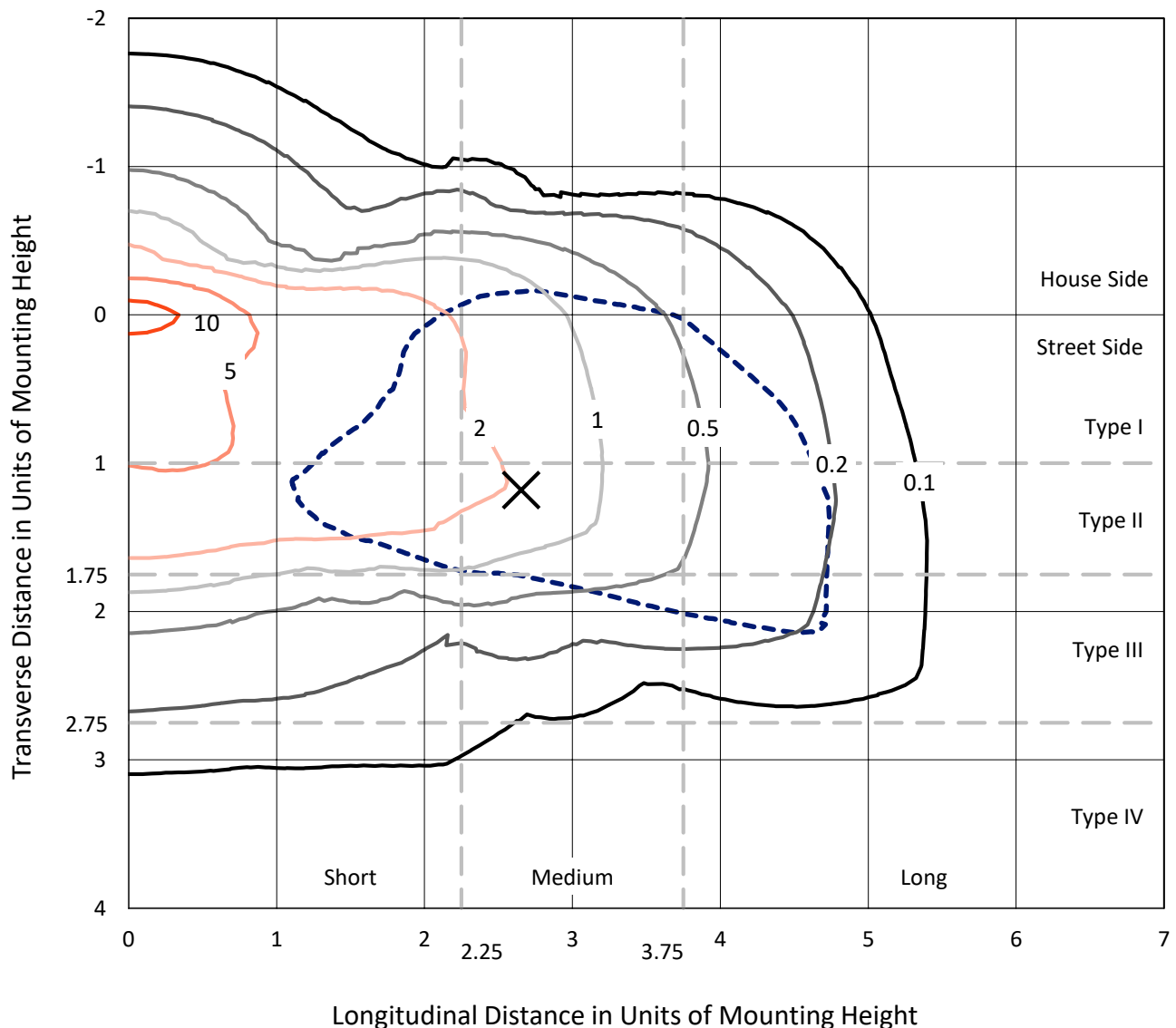


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Iso-Footcandle Lines of Horizontal Illumination

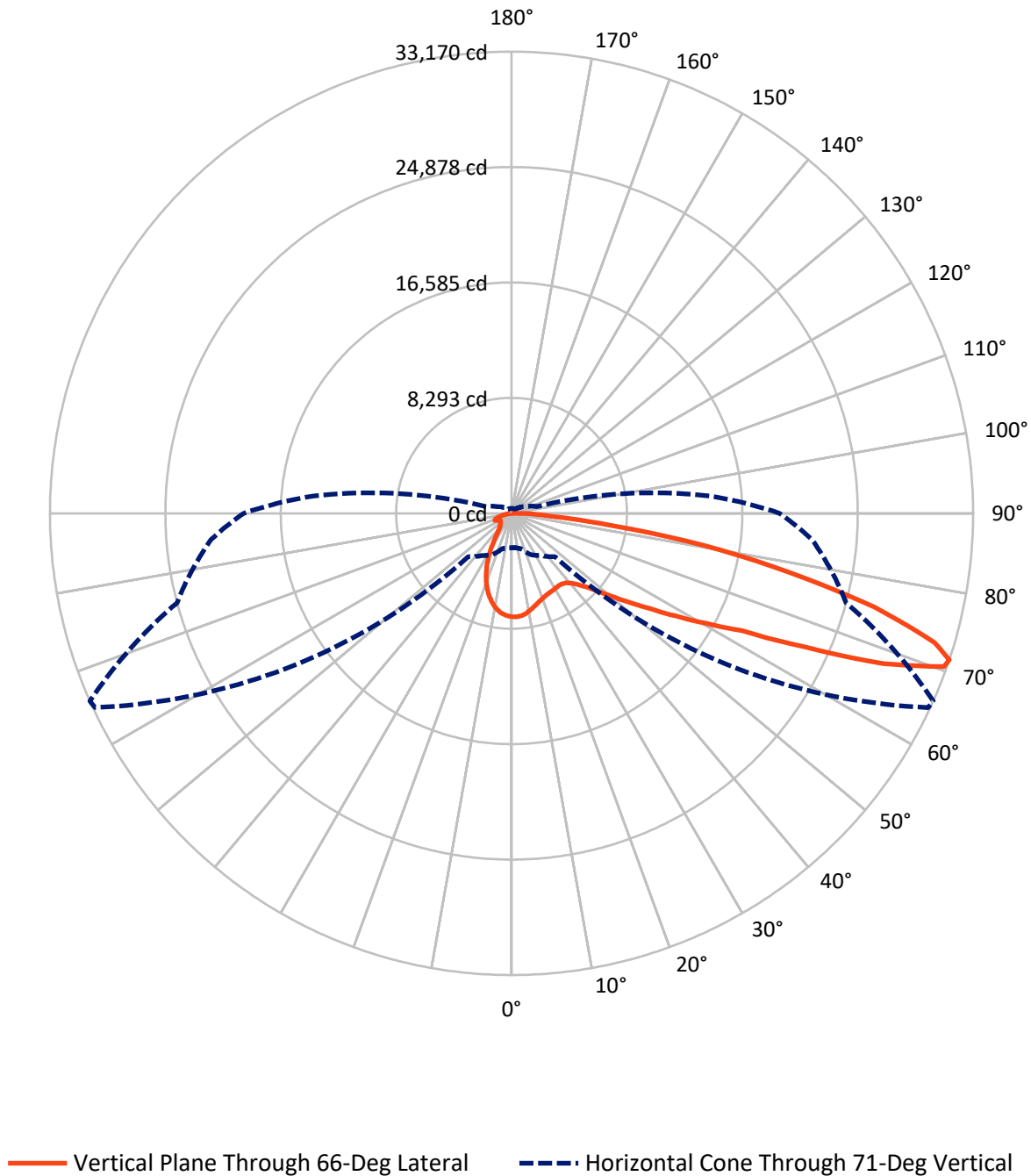
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	6010.5	0.0	6010.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	26421.5	0.0	26421.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	32432.0	0.0	32432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.0	2.0
10°-20°	1568.5	4.8
20°-30°	2106.9	6.5
30°-40°	2771.6	8.5
40°-50°	4032.0	12.4
50°-60°	6298.4	19.4
60°-70°	7889.7	24.3
70°-80°	6018.1	18.6
80°-90°	1092.8	3.4
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°	32432.0	100.0
0°-180°	32432.0	100.0

Coefficient of Utilization



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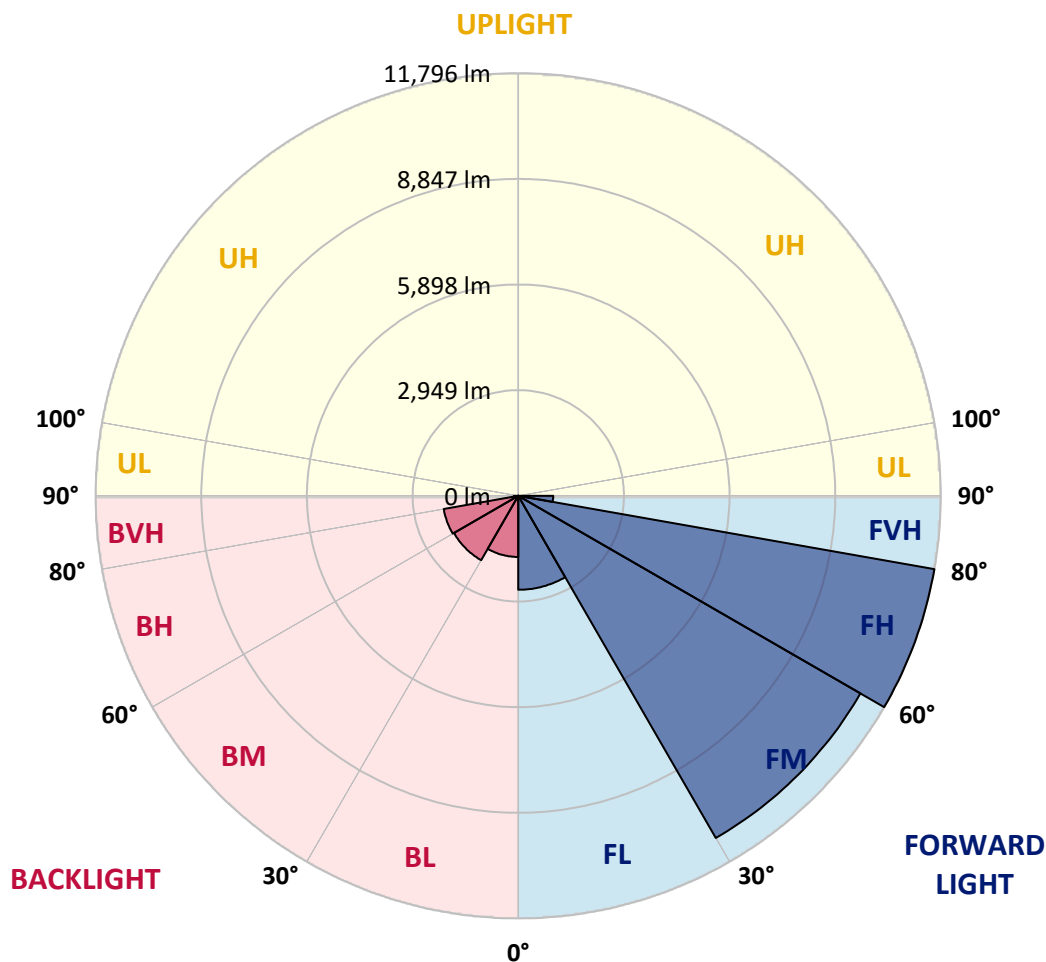
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2622.6	8.1			
FM	(30°-60°)	11028.5	34.0			
FH	(60°-80°)	11795.9	36.4			G4/12000
FVH	(80°-90°)	974.5	3.0			G5
BL	(0°-30°)	1706.8	5.3	B3/2500		
BM	(30°-60°)	2073.4	6.4	B2/2500		
BH	(60°-80°)	2112.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	118.3	0.4			G2/225
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°	66°	75°	85°
0°	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5
2.5°	7291.8	7280.6	7314.2	7348.9	7362.4	7384.8	7418.3	7437.4	7436.3	7439.6	7428.4
5°	6808.1	6793.5	6860.7	6915.6	7020.8	7139.5	7284.0	7387.0	7389.2	7447.5	7463.1
7.5°	6350.1	6340.0	6417.3	6505.7	6627.8	6809.2	7043.2	7264.9	7278.4	7436.3	7491.1
10°	5982.8	5980.6	6055.6	6151.9	6294.1	6496.8	6765.5	7090.3	7110.4	7382.5	7495.6
12.5°	5696.2	5700.6	5765.6	5875.3	6025.4	6237.0	6528.1	6894.3	6926.8	7297.4	7469.9
15°	5484.5	5502.5	5555.1	5665.9	5813.7	6028.7	6327.7	6712.9	6762.2	7202.2	7455.3
17.5°	5363.6	5383.8	5420.7	5512.5	5651.4	5858.5	6141.8	6564.0	6608.8	7129.5	7456.4
20°	5327.8	5344.6	5365.8	5421.8	5539.4	5727.5	5995.1	6429.6	6477.8	7071.2	7467.6
22.5°	5398.3	5410.6	5412.9	5408.4	5480.1	5633.5	5888.8	6331.1	6382.6	7033.2	7475.5
25°	5549.5	5566.3	5554.0	5512.5	5489.0	5583.1	5833.9	6266.1	6317.6	7005.2	7459.8
27.5°	5776.8	5779.0	5769.0	5715.2	5604.4	5588.7	5817.1	6228.1	6277.3	6972.7	7427.3
30°	6085.8	6100.4	6082.5	6009.7	5828.3	5678.3	5837.3	6191.1	6235.9	6931.3	7374.7
32.5°	6447.5	6483.4	6482.2	6406.1	6146.3	5878.7	5920.1	6168.7	6203.4	6887.6	7310.8
35°	6822.6	6871.9	6963.7	6931.3	6609.9	6195.6	6079.1	6204.5	6228.1	6882.0	7266.1
37.5°	7212.3	7261.6	7450.8	7538.2	7161.9	6649.1	6329.9	6331.1	6342.3	6950.3	7262.7
40°	7619.9	7672.5	7956.9	8184.3	7877.4	7223.5	6734.2	6595.3	6583.0	7118.3	7328.8
42.5°	8191.0	8238.0	8579.5	8869.5	8671.3	7959.2	7292.9	7002.9	6977.2	7447.5	7540.4
45°	8913.2	8953.5	9316.3	9626.5	9524.6	8799.0	7995.0	7563.9	7559.4	7996.1	7969.3
47.5°	9772.1	9803.4	10129.3	10429.4	10466.3	9765.3	8877.4	8429.5	8356.7	8748.6	8633.3
50°	10666.7	10701.5	10923.2	11245.7	11520.0	11058.7	10012.8	9489.9	9392.5	9741.8	9573.9
52.5°	11259.1	11305.0	11497.6	11906.3	12704.7	12476.3	11355.4	10775.4	10627.6	10945.6	10816.8
55°	10994.8	11097.8	11392.3	12047.4	13652.0	14641.9	13011.5	12274.7	12107.9	12372.1	12296.0
57.5°	9793.3	9934.4	10336.4	11347.5	13785.2	16549.9	15515.3	14040.5	13923.0	13846.8	13881.5
60°	7597.5	7733.0	8231.3	9549.2	12857.0	17942.9	19283.2	16217.3	16047.1	15327.1	15358.5
62.5°	5377.0	5308.7	5650.3	6614.4	10447.3	18106.4	23570.7	19128.7	18568.8	16890.3	16752.6
65°	4100.5	4084.8	4238.3	4545.1	6327.7	16150.2	26124.9	24022.0	23147.5	18728.9	18404.2
67.5°	3369.3	3341.3	3492.5	3939.3	4074.8	10419.3	26180.9	29699.1	28840.3	21017.7	20314.5
70°	2770.3	2738.9	2880.0	3456.7	3765.7	5284.1	22034.4	33023.7	32977.8	23915.6	21756.7
71°	2483.6	2461.2	2630.3	3270.8	3699.7	4404.0	19024.6	33032.6	33170.4	24896.5	21671.6
72.5°	2022.3	2030.1	2209.3	2911.4	3650.4	3888.9	13982.3	31493.0	31784.1	25831.5	20897.9
75°	1343.7	1350.4	1585.6	2239.5	3539.5	3804.9	7684.8	26426.1	26961.3	25271.6	19069.3
77.5°	902.5	900.3	1060.4	1536.3	3083.8	3804.9	4505.9	19764.7	20352.6	20108.5	14701.2
80°	621.5	617.0	730.1	1060.4	2334.7	3850.8	3483.5	13851.3	14029.4	10859.3	5975.0
82.5°	380.7	384.1	477.0	749.1	1588.9	3465.6	3288.7	7552.7	7359.0	3045.7	1492.6
85°	218.4	217.2	304.6	507.2	1020.1	2924.8	3207.0	3250.6	2981.9	917.1	539.7
87.5°	78.4	84.0	163.5	281.1	584.5	2036.8	2721.0	1690.8	1524.0	414.3	244.1
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°	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5	7429.5
2.5°	7420.6	7427.3	7419.5	7374.7	7336.6	7275.0	7240.3	7192.2	7177.6	7170.9	7188.8
5°	7448.6	7450.8	7384.8	7267.2	7135.0	6979.4	6867.4	6729.7	6664.8	6636.8	6654.7
7.5°	7474.3	7464.3	7319.8	7094.7	6850.6	6579.7	6338.9	6118.3	5989.5	5936.9	5941.4
10°	7477.7	7435.1	7203.4	6855.1	6476.6	6079.1	5709.6	5369.2	5154.2	5014.2	5056.8
12.5°	7443.0	7371.3	7032.0	6544.9	6019.8	5477.8	4978.4	4467.8	4161.0	4018.8	4023.3
15°	7416.1	7286.2	6821.5	6179.9	5474.5	4756.7	4074.8	3474.6	3147.6	3002.1	2933.7
17.5°	7393.7	7194.4	6577.4	5769.0	4830.6	3920.2	3100.6	2565.3	2386.2	2343.6	2325.7
20°	7362.4	7097.0	6305.3	5293.1	4097.2	2984.1	2264.1	1999.9	2001.0	2050.3	2057.0
22.5°	7318.7	6986.1	6015.3	4758.9	3310.0	2173.4	1774.8	1698.7	1775.9	1870.0	1886.8
25°	7253.7	6855.1	5692.8	4168.8	2523.9	1670.7	1516.1	1512.8	1606.8	1705.4	1719.9
27.5°	7161.9	6683.8	5334.5	3535.1	1859.9	1419.8	1358.3	1381.8	1451.2	1522.9	1528.5
30°	7038.8	6484.5	4939.2	2866.6	1457.9	1264.2	1257.5	1278.8	1321.3	1371.7	1376.2
32.5°	6903.3	6281.8	4517.1	2219.3	1248.5	1180.2	1186.9	1197.0	1217.2	1237.3	1241.8
35°	6780.1	6074.6	4084.8	1686.3	1148.9	1125.3	1120.9	1118.6	1120.9	1114.2	1115.3
37.5°	6700.6	5903.3	3634.7	1342.6	1091.8	1077.2	1063.8	1047.0	1027.9	1016.7	1019.0
40°	6671.5	5775.7	3179.0	1160.1	1044.7	1034.6	1008.9	973.1	950.7	943.9	943.9
42.5°	6749.9	5709.6	2738.9	1068.2	1005.5	988.7	946.2	904.8	888.0	886.8	885.7
45°	6989.5	5736.5	2320.1	1017.9	969.7	937.2	881.2	846.5	835.3	837.6	836.5
47.5°	7419.5	5905.6	1961.8	984.3	933.9	891.3	828.6	800.6	787.2	787.2	788.3
50°	8150.7	6300.8	1676.3	956.3	903.6	848.8	790.5	755.8	737.9	736.8	736.8
52.5°	9215.5	7008.5	1498.2	932.8	870.0	810.7	752.5	708.8	687.5	683.0	680.8
55°	10550.3	8023.0	1449.0	917.1	825.3	769.3	706.6	662.9	639.4	629.3	628.2
57.5°	12042.9	9257.0	1546.4	898.0	779.3	720.0	656.2	614.7	590.1	577.8	576.7
60°	13553.5	10604.0	1943.9	871.2	741.3	666.3	604.7	566.6	542.0	528.5	526.3
62.5°	15066.2	12023.9	2755.7	868.9	714.4	614.7	552.0	519.6	496.0	481.5	478.1
65°	16772.7	13578.1	3678.4	928.3	705.4	567.7	498.3	472.5	452.4	438.9	437.8
67.5°	18732.3	15332.7	3589.9	1050.3	735.7	525.2	447.9	427.7	413.2	402.0	400.9
70°	19651.6	15058.4	2231.7	1136.5	778.2	483.7	399.8	385.2	374.0	366.2	362.8
71°	19266.4	14298.1	1871.1	1126.5	773.7	465.8	380.7	369.5	358.3	351.6	348.2
72.5°	18216.1	13039.5	1560.9	1048.1	723.4	433.3	356.1	344.9	334.8	327.0	324.7
75°	16346.1	11645.4	1249.6	837.6	576.7	366.2	312.4	300.1	292.3	287.8	283.3
77.5°	12016.0	8310.8	966.3	661.8	424.4	299.0	266.5	257.5	249.7	243.0	239.6
80°	4603.3	3219.3	650.6	493.8	311.3	236.3	215.0	210.5	202.7	198.2	198.2
82.5°	1239.6	961.9	347.1	299.0	208.3	172.4	164.6	162.4	155.6	146.7	147.8
85°	501.6	424.4	194.8	164.6	127.7	101.9	110.9	112.0	104.1	92.9	94.1
87.5°	220.6	180.3	108.6	72.8	56.0	39.2	50.4	50.4	45.9	38.1	34.7
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)