

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: P457795

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-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: 32884 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

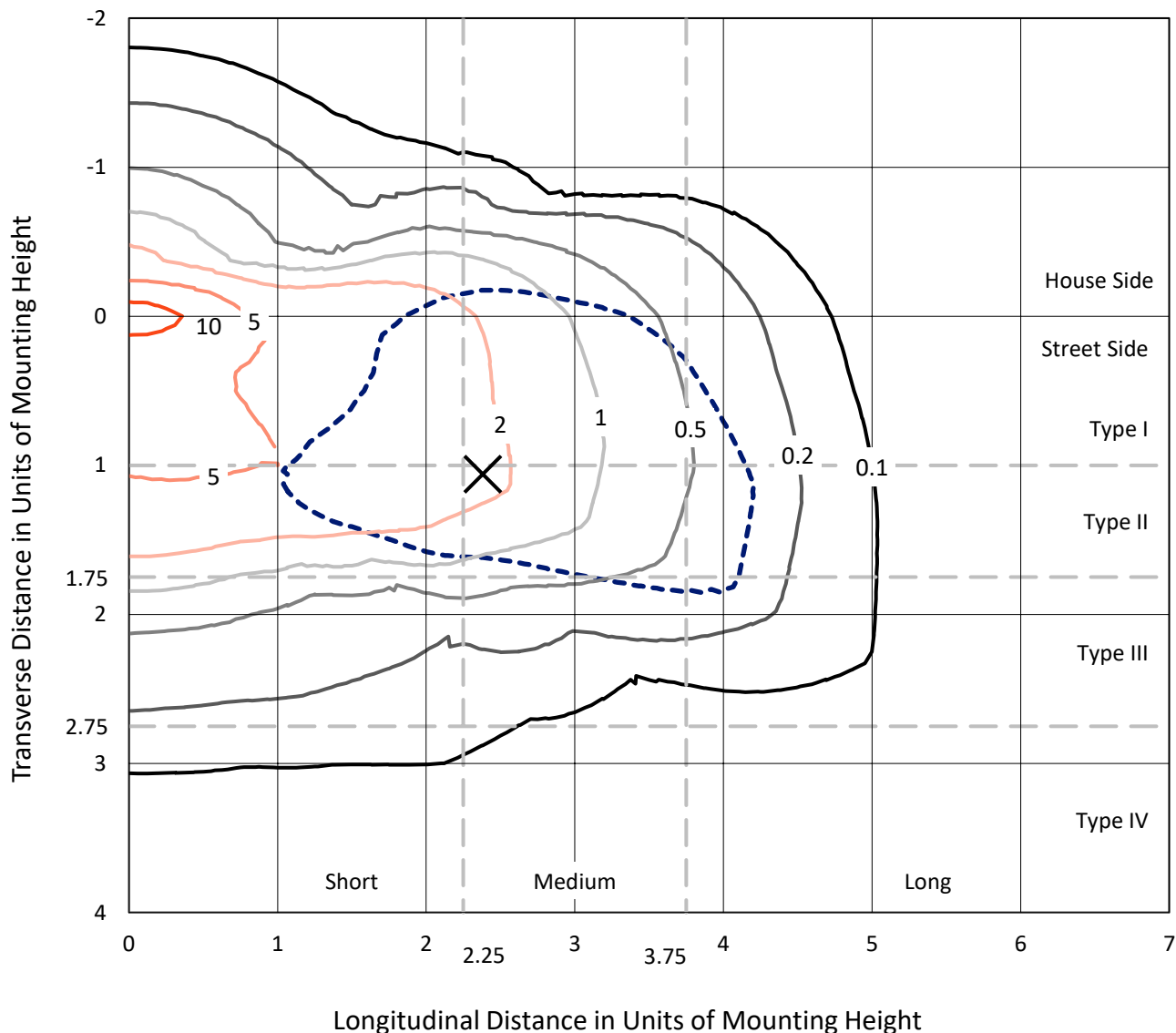
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

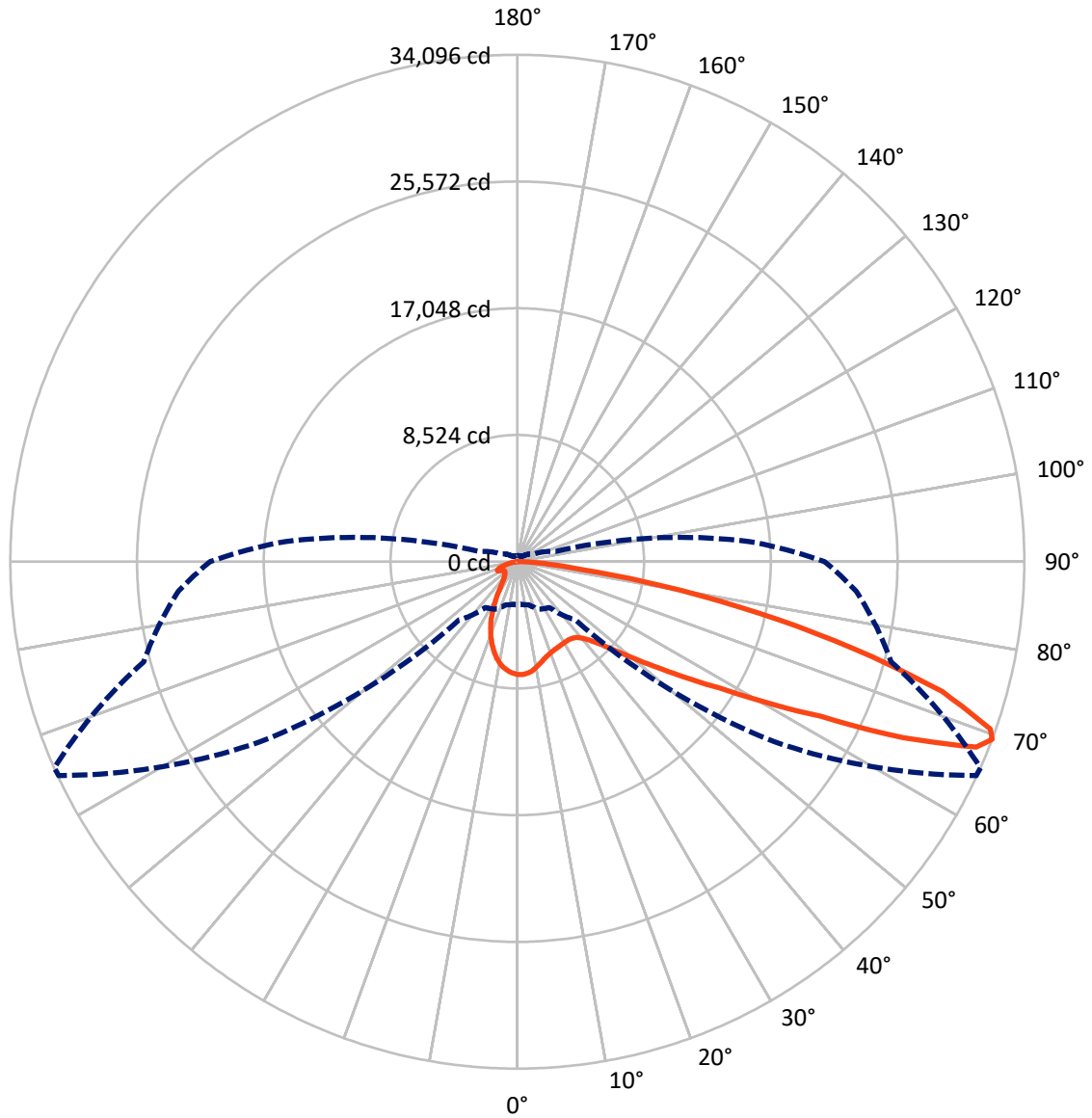
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6184.2	0.0	6184.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26699.8	0.0	26699.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	32884.0	0.0	32884.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.4	2.0
10°-20°	1564.1	4.8
20°-30°	2129.4	6.5
30°-40°	2861.4	8.7
40°-50°	4272.6	13.0
50°-60°	6796.2	20.7
60°-70°	8359.0	25.4
70°-80°	5438.7	16.5
80°-90°	803.1	2.4
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°	32884.0	100.0
0°-180°	32884.0	100.0



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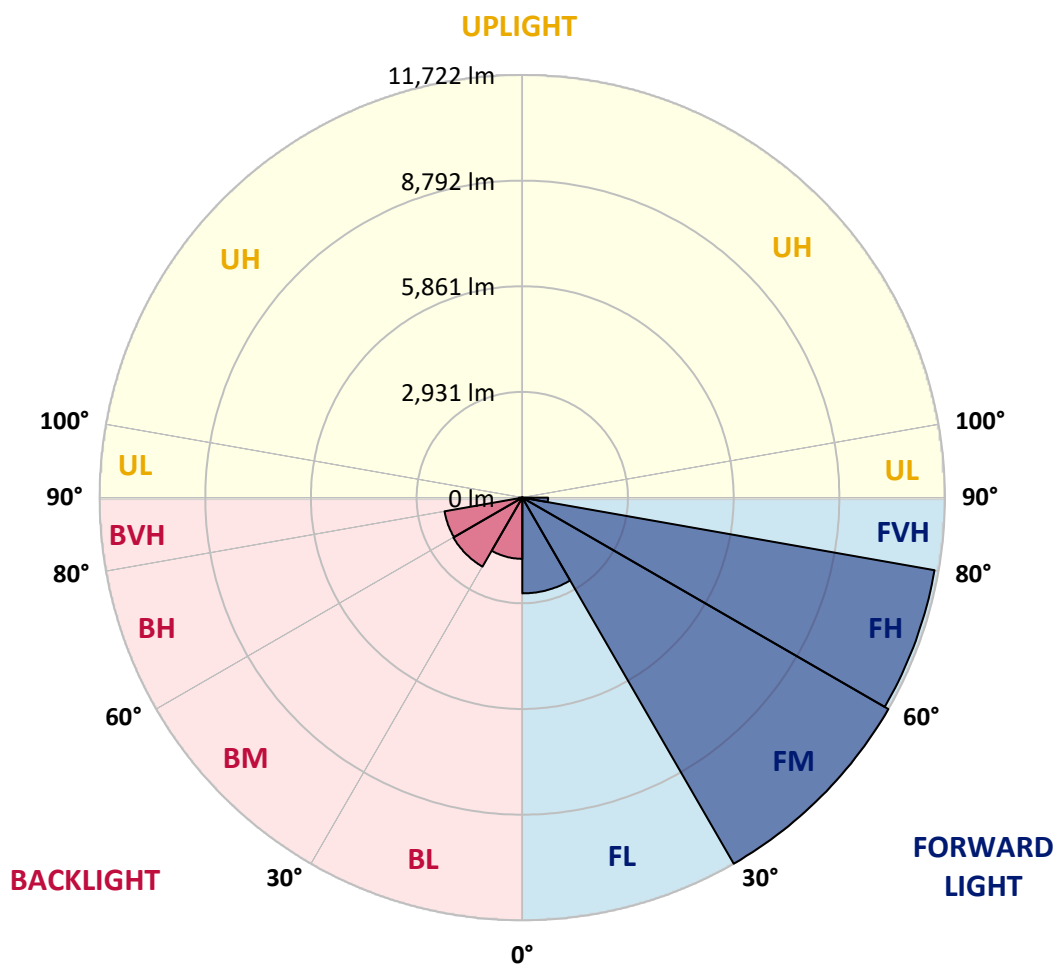
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2655.3	8.1			
FM	(30°-60°)	11722.2	35.6			
FH	(60°-80°)	11608.2	35.3			G4/12000
FVH	(80°-90°)	714.0	2.2			G4/750
BL	(0°-30°)	1697.6	5.2	B3/2500		
BM	(30°-60°)	2208.1	6.7	B2/2500		
BH	(60°-80°)	2189.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	89.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8
2.5°	7328.0	7357.1	7389.9	7426.3	7495.5	7533.7	7561.1	7592.0	7595.7	7612.0	7599.3
5°	6787.1	6821.7	6870.9	6940.1	7043.9	7205.9	7373.5	7510.1	7526.4	7602.9	7624.8
7.5°	6335.5	6355.5	6395.6	6506.7	6654.2	6834.4	7078.5	7355.3	7395.3	7577.4	7641.2
10°	5967.6	5987.7	6035.0	6149.7	6295.4	6521.2	6788.9	7153.1	7185.9	7499.1	7644.8
12.5°	5692.6	5710.9	5761.8	5874.7	6042.3	6253.5	6548.5	6934.6	6982.0	7395.3	7610.2
15°	5483.2	5517.8	5559.7	5652.6	5829.2	6033.2	6319.1	6734.3	6772.5	7286.1	7586.5
17.5°	5394.0	5410.4	5439.5	5525.1	5654.4	5854.7	6142.4	6577.7	6623.2	7209.6	7581.1
20°	5397.6	5414.0	5419.5	5466.8	5559.7	5732.7	6016.8	6453.8	6508.5	7142.2	7590.2
22.5°	5521.5	5523.3	5503.2	5486.9	5523.3	5667.1	5927.6	6361.0	6424.7	7113.1	7597.5
25°	5712.7	5745.5	5716.3	5639.8	5572.5	5641.7	5893.0	6310.0	6370.1	7071.2	7588.4
27.5°	6022.3	6027.7	6004.0	5900.2	5725.4	5674.4	5878.4	6271.7	6322.7	7040.2	7542.8
30°	6437.5	6421.1	6399.2	6284.5	6009.5	5800.1	5909.3	6237.1	6289.9	6994.7	7488.2
32.5°	6858.1	6909.1	6889.1	6754.3	6397.4	6044.1	6009.5	6233.5	6277.2	6960.1	7428.1
35°	7304.3	7328.0	7422.6	7353.4	6987.4	6439.3	6197.1	6289.9	6324.5	6961.9	7386.2
37.5°	7653.9	7717.7	7939.8	7999.9	7655.7	6961.9	6501.2	6450.2	6464.8	7051.2	7402.6
40°	8076.4	8185.7	8471.6	8717.4	8491.6	7641.2	7018.4	6747.0	6765.2	7266.0	7510.1
42.5°	8611.8	8688.3	9072.5	9405.8	9369.4	8539.0	7644.8	7233.3	7242.4	7694.0	7810.5
45°	9238.2	9347.5	9779.1	10279.9	10365.5	9555.1	8549.9	7969.0	7963.5	8358.7	8371.4
47.5°	10039.5	10106.9	10534.8	11081.2	11427.2	10831.7	9648.0	9025.2	8966.9	9327.5	9223.7
50°	10777.0	10882.7	11206.8	11804.1	12665.5	12326.8	11092.1	10394.6	10258.0	10594.9	10420.1
52.5°	11086.6	11197.7	11470.9	12212.0	13727.2	14260.7	12925.9	12028.1	11800.5	12059.1	11995.3
55°	10549.4	10693.3	10948.2	11849.7	14193.4	16491.5	15398.9	13916.6	13750.8	13639.8	13658.0
57.5°	9105.3	9241.9	9586.1	10580.4	13636.1	18110.5	18929.9	16344.0	15988.9	15477.2	15564.6
60°	6931.0	7016.6	7195.0	8296.8	11984.4	18531.1	22939.9	19412.5	19186.7	17307.4	17369.3
62.5°	4922.3	5018.8	5142.7	5692.6	8773.9	17345.6	26079.4	23697.5	22890.8	19203.1	19143.0
65°	3997.2	3931.7	4081.0	4337.8	5148.1	13443.1	26786.0	29645.1	28534.2	21699.8	20865.7
67.5°	3287.0	3217.8	3365.3	3822.4	3915.3	7803.3	24240.2	33505.7	33283.6	24415.0	22615.8
69°	2910.1	2873.6	3002.9	3523.8	3758.7	5541.5	21117.0	34042.9	34095.7	26015.7	22885.3
70°	2622.3	2636.9	2762.6	3372.6	3687.7	4569.0	18048.5	33301.8	33749.7	26815.1	22593.9
72.5°	1930.3	1961.3	2136.1	2793.5	3620.3	3877.0	10740.6	29087.8	29880.0	26862.5	20669.1
75°	1349.4	1334.8	1489.6	2103.3	3420.0	3842.4	6308.2	22495.6	23393.4	23218.5	17367.5
77.5°	883.2	906.9	1030.7	1486.0	2877.3	3813.3	4112.0	15959.8	16542.5	15528.2	10272.6
80°	622.8	621.0	690.2	1014.3	2134.3	3664.0	3367.1	10059.5	9912.0	6102.4	3046.6
82.5°	356.9	382.4	462.5	713.9	1427.7	3225.1	3097.6	4811.2	4392.4	1739.1	1028.9
85°	198.5	207.6	275.0	431.6	834.0	2429.3	2704.3	2188.9	2065.1	726.6	442.5
87.5°	63.7	69.2	114.7	218.5	378.8	1147.3	1531.5	1010.7	932.4	262.2	178.5
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°	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8
2.5°	7604.8	7626.6	7568.3	7511.9	7460.9	7389.9	7326.1	7273.3	7236.9	7231.4	7213.2
5°	7630.3	7632.1	7521.0	7371.7	7226.0	7065.7	6900.0	6781.6	6670.6	6608.6	6577.7
7.5°	7648.5	7632.1	7431.8	7189.6	6909.1	6617.7	6326.4	6093.3	5913.0	5842.0	5869.3
10°	7641.2	7590.2	7297.0	6909.1	6501.2	6066.0	5647.1	5319.3	5018.8	4864.1	4867.7
12.5°	7601.1	7517.3	7096.7	6594.1	5994.9	5412.2	4771.2	4328.7	3980.8	3775.1	3711.3
15°	7566.5	7420.8	6861.8	6166.1	5421.3	4589.1	3807.8	3261.5	2970.2	2808.1	2806.3
17.5°	7530.1	7328.0	6605.0	5712.7	4762.1	3691.3	2871.8	2454.8	2318.2	2334.6	2307.3
20°	7491.8	7218.7	6337.3	5208.2	3959.0	2753.4	2150.7	1981.3	2019.6	2094.2	2105.1
22.5°	7448.1	7102.1	6049.6	4652.8	3114.0	2072.4	1744.6	1719.1	1817.4	1934.0	1950.4
25°	7380.8	6956.5	5687.2	4071.9	2402.0	1669.9	1527.9	1546.1	1642.6	1740.9	1751.9
27.5°	7286.1	6776.2	5321.1	3347.1	1804.7	1433.2	1396.8	1420.4	1467.8	1527.9	1542.4
30°	7158.6	6572.2	4900.5	2720.7	1445.9	1314.8	1300.2	1313.0	1340.3	1365.8	1373.1
32.5°	7031.1	6375.5	4476.2	2083.3	1289.3	1236.5	1221.9	1221.9	1221.9	1225.6	1227.4
35°	6912.8	6189.8	4020.9	1622.6	1207.4	1174.6	1154.6	1132.7	1129.1	1116.3	1116.3
37.5°	6847.2	6020.4	3536.5	1358.5	1147.3	1123.6	1096.3	1059.9	1039.8	1041.6	1038.0
40°	6859.9	5909.3	3095.8	1209.2	1098.1	1072.6	1030.7	988.8	976.1	976.1	972.4
42.5°	7003.8	5872.9	2673.3	1130.9	1050.8	1021.6	968.8	930.6	923.3	921.5	925.1
45°	7335.2	5962.2	2294.5	1079.9	1010.7	967.0	914.2	879.6	872.3	872.3	870.5
47.5°	7981.7	6251.7	2023.2	1047.1	981.6	925.1	870.5	835.9	823.1	819.5	819.5
50°	8986.9	6880.0	1821.1	1018.0	945.1	886.9	830.4	790.3	770.3	768.5	766.7
52.5°	10383.7	7859.7	1742.8	996.1	905.1	846.8	784.9	746.6	721.1	715.7	712.0
55°	12017.2	9227.3	1850.2	979.7	863.2	801.3	737.5	697.5	673.8	662.9	661.0
57.5°	13909.3	10869.9	2258.1	957.9	824.9	752.1	690.2	650.1	624.6	611.9	608.2
60°	15608.3	12558.0	2970.2	945.1	792.2	699.3	635.6	599.1	575.5	562.7	560.9
62.5°	17474.9	14167.9	3820.6	979.7	777.6	648.3	584.6	551.8	531.8	519.0	519.0
65°	19469.0	15779.5	4383.3	1096.3	799.4	608.2	529.9	502.6	484.4	475.3	473.5
67.5°	20812.9	16336.7	3611.2	1216.5	854.1	564.5	477.1	455.3	444.3	435.2	435.2
69°	20667.2	15632.0	2664.2	1247.4	870.5	542.7	448.0	431.6	417.0	413.4	409.7
70°	20206.5	14828.9	2232.6	1227.4	857.7	522.6	429.8	409.7	397.0	393.3	391.5
72.5°	17997.6	12860.3	1662.6	1067.1	730.2	453.4	380.6	362.4	351.5	346.0	346.0
75°	14952.7	10511.2	1298.4	848.6	571.8	382.4	326.0	311.4	302.3	298.7	296.8
77.5°	8380.5	5869.3	932.4	664.7	433.4	309.6	273.2	260.4	251.3	247.7	247.7
80°	2334.6	1677.2	548.1	438.9	295.0	234.9	216.7	207.6	194.9	185.7	191.2
82.5°	879.6	726.6	313.2	264.1	187.6	156.6	151.1	143.9	138.4	125.7	125.7
85°	427.9	353.3	200.3	140.2	103.8	81.9	78.3	74.7	71.0	61.9	63.7
87.5°	147.5	156.6	87.4	51.0	31.0	20.0	16.4	9.1	9.1	9.1	9.1
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)