

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: P318552

Luminaire Tested: **GAN-SA8A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29686 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

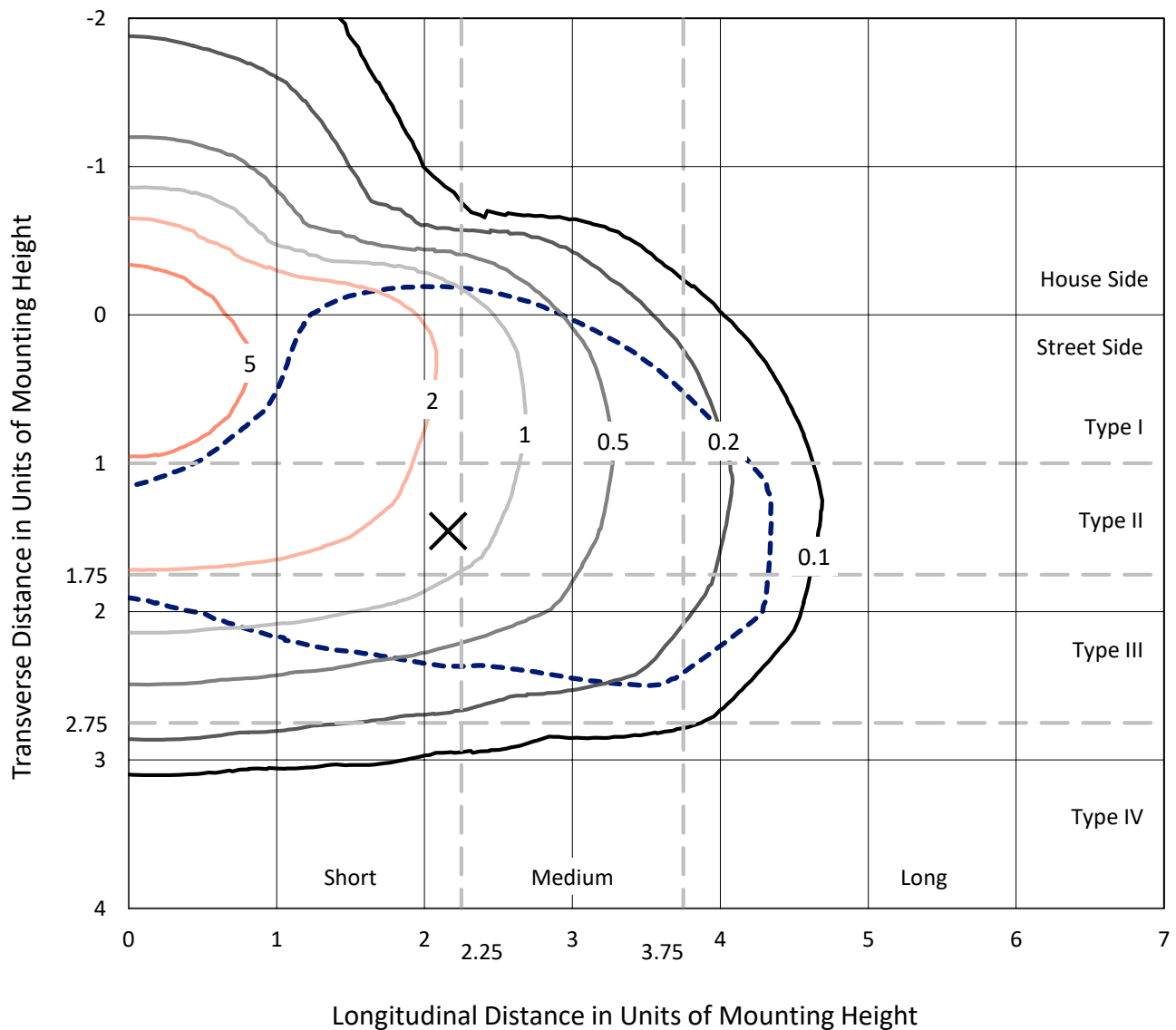
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

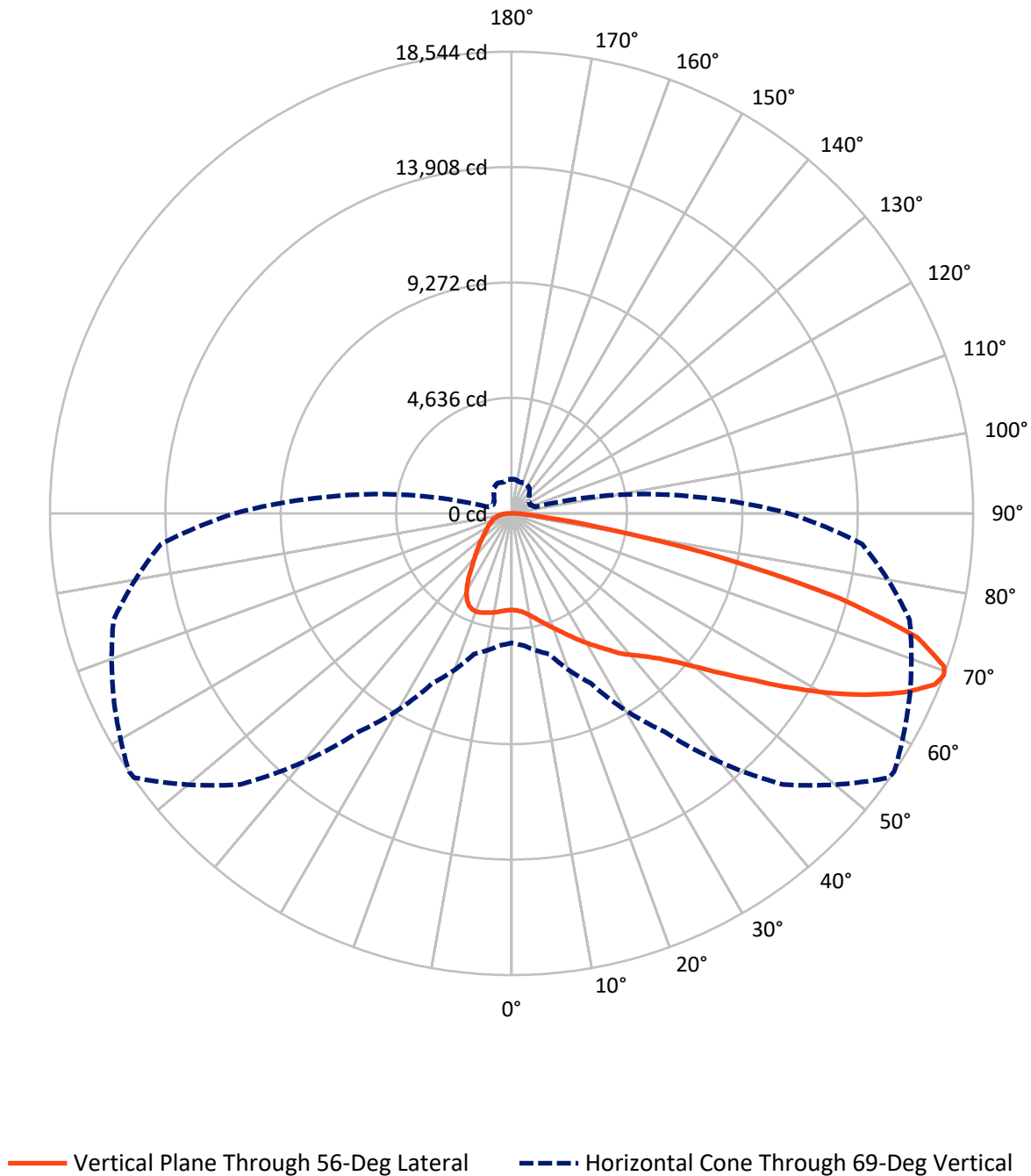
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6611.0	0.0	6611.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23075.0	0.0	23075.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	29686.0	0.0	29686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	1.3
10°-20°	1225.7	4.1
20°-30°	2139.6	7.2
30°-40°	3073.5	10.4
40°-50°	4253.5	14.3
50°-60°	6232.0	21.0
60°-70°	7598.0	25.6
70°-80°	4200.7	14.2
80°-90°	581.8	2.0
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°	29686.0	100.0
0°-180°	29686.0	100.0

Coefficient of Utilization



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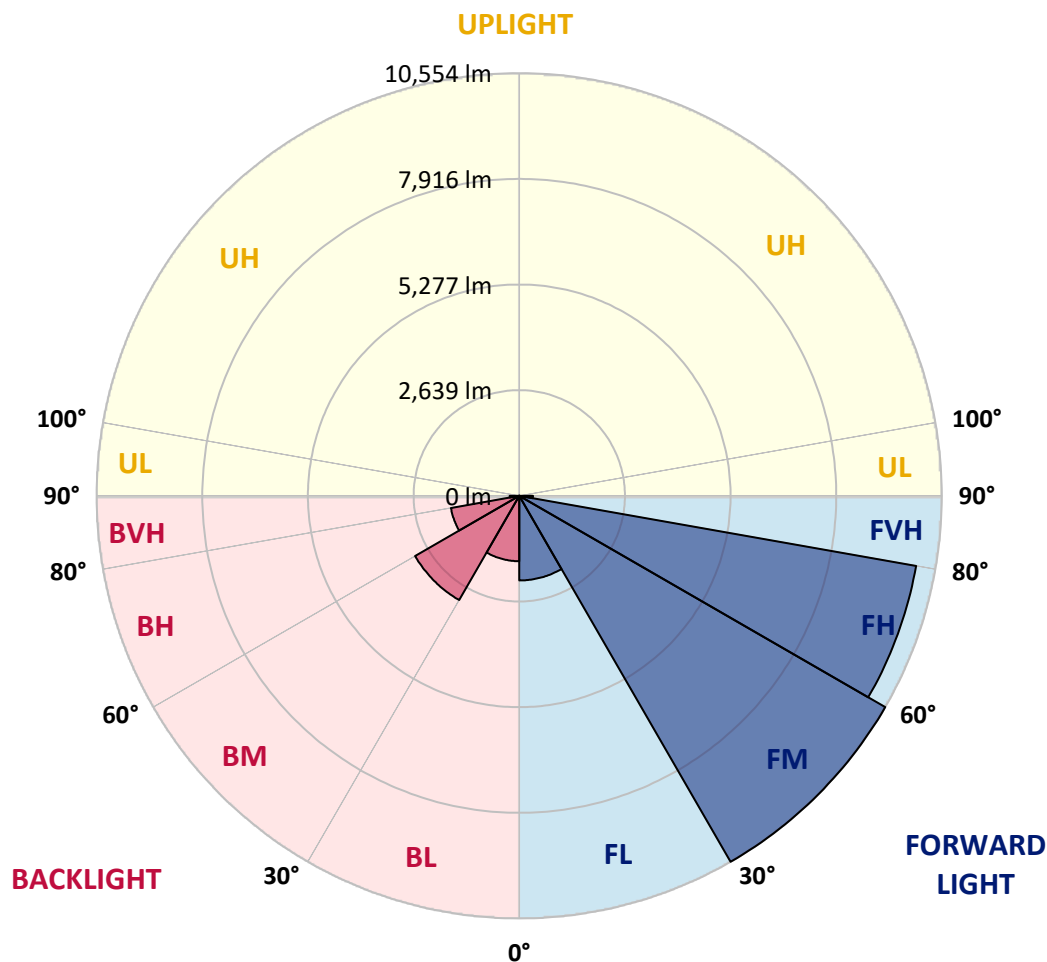
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2112.8	7.1			
FM	(30°-60°)	10554.5	35.6			
FH	(60°-80°)	10065.0	33.9			G4/12000
FVH	(80°-90°)	342.7	1.2			G3/500
BL	(0°-30°)	1633.7	5.5	B3/2500		
BM	(30°-60°)	3004.6	10.1	B3/5000		
BH	(60°-80°)	1733.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	239.1	0.8			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0
2.5°	3905.5	3909.6	3906.6	3914.7	3905.5	3911.7	3906.6	3906.6	3903.5	3894.3	3884.1
5°	3966.9	3975.1	3970.0	3978.2	3966.9	3968.9	3959.7	3959.7	3950.5	3931.1	3910.7
7.5°	4063.0	4072.2	4068.1	4076.3	4061.0	4061.0	4048.7	4047.7	4029.3	3997.6	3974.1
10°	4177.6	4189.8	4185.8	4198.0	4185.8	4189.8	4177.6	4177.6	4153.0	4108.0	4078.4
12.5°	4344.3	4359.6	4348.4	4347.3	4342.2	4350.4	4340.2	4338.1	4315.6	4254.3	4213.4
15°	4567.2	4583.6	4560.0	4558.0	4529.4	4526.3	4526.3	4523.2	4508.9	4435.3	4367.8
17.5°	4823.9	4829.0	4808.6	4775.8	4739.0	4715.5	4712.4	4720.6	4720.6	4634.7	4527.3
20°	5075.5	5084.7	5068.3	5031.5	4984.4	4949.7	4925.1	4941.5	4940.5	4838.2	4685.8
22.5°	5349.5	5371.0	5346.5	5299.4	5244.2	5205.3	5162.4	5176.7	5177.7	5051.9	4841.3
25°	5704.4	5685.0	5669.6	5603.2	5524.4	5484.5	5444.6	5459.0	5454.9	5282.0	5001.8
27.5°	6018.4	6022.4	6002.0	5931.4	5840.4	5752.5	5750.4	5759.6	5744.3	5521.3	5153.2
30°	6383.4	6385.5	6356.9	6293.5	6194.3	6080.7	6054.2	6069.5	6036.8	5748.4	5312.7
32.5°	6746.5	6756.7	6725.0	6648.3	6568.6	6430.5	6377.3	6387.5	6305.7	5980.5	5477.4
35°	7064.5	7078.9	7068.6	7017.5	6930.6	6811.9	6748.5	6742.4	6641.2	6264.8	5695.2
37.5°	7388.7	7402.0	7390.8	7347.8	7313.0	7187.3	7153.5	7153.5	6977.6	6555.3	5972.3
40°	7722.1	7742.6	7729.3	7670.0	7640.3	7583.0	7502.2	7482.8	7292.6	6904.0	6424.4
42.5°	8032.0	8058.6	8111.7	8077.0	8016.6	8024.8	7862.2	7852.0	7712.9	7419.4	6991.9
45°	8471.7	8510.6	8600.6	8574.0	8561.7	8516.7	8323.4	8314.2	8261.1	8112.8	7696.5
47.5°	8951.3	9004.5	9167.1	9172.2	9304.2	9219.3	8956.5	8924.8	8937.0	8943.2	8556.6
50°	9393.1	9451.4	9718.3	9844.1	10155.0	10173.4	9753.1	9724.5	9772.5	9913.7	9558.8
52.5°	9746.0	9819.6	10153.0	10541.6	11074.4	11225.7	10733.8	10712.4	10748.2	10991.6	10691.9
55°	10004.7	10084.5	10447.5	11155.2	12006.0	12273.0	11862.9	11842.4	11864.9	12174.8	11924.2
57.5°	10065.0	10084.5	10611.1	11568.3	12792.5	13433.7	13244.5	13203.6	13093.1	13363.1	13284.4
60°	9781.8	9859.5	10476.1	11713.6	13400.9	14578.0	14688.5	14637.3	14327.5	14548.4	14485.0
62.5°	9207.0	9346.1	9972.0	11492.7	13639.2	15512.7	16104.9	16043.5	15509.7	15652.8	15348.1
65°	8268.2	8327.5	8985.1	10730.8	13336.5	16111.0	17367.8	17337.2	16665.3	16441.3	15507.6
67.5°	6589.0	6700.5	7258.8	9138.5	12098.1	16040.4	18344.5	18341.4	17420.0	16733.8	14942.1
69°	5205.3	5320.9	5852.7	7527.8	10705.2	15395.1	18508.1	18543.9	17632.7	16555.9	14134.2
70°	4150.0	4283.9	4649.0	6340.5	9468.8	14544.3	18372.1	18436.5	17591.8	16262.4	13388.7
72.5°	1766.1	1874.5	2134.3	3268.4	5770.9	10860.7	16798.2	17041.6	16643.8	14883.8	11065.2
75°	771.1	804.8	922.4	1332.5	2561.8	5911.0	13159.6	13609.6	14231.3	12580.8	8242.6
77.5°	564.5	578.8	643.3	782.3	1149.5	2232.5	8462.5	8724.3	10263.4	9154.9	5056.0
80°	436.7	446.9	497.0	574.7	750.6	903.0	3859.5	4084.5	5770.9	4702.2	2105.7
82.5°	347.7	354.9	389.6	423.4	518.5	547.1	1281.4	1421.5	2130.2	1298.8	557.4
85°	323.2	331.3	343.6	308.8	332.4	321.1	554.3	579.8	643.3	510.3	233.2
87.5°	146.2	172.8	340.5	240.3	176.9	141.1	227.0	237.3	266.9	267.9	103.3
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°	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0	3881.0
2.5°	3890.2	3887.1	3892.2	3880.0	3895.3	3894.3	3889.2	3891.2	3901.5	3900.4	3901.5
5°	3913.7	3911.7	3917.8	3908.6	3927.0	3933.2	3934.2	3943.4	3954.6	3957.7	3957.7
7.5°	3973.0	3973.0	3976.1	3963.8	3976.1	3975.1	3970.0	3979.2	3990.4	3991.4	3990.4
10°	4075.3	4076.3	4071.2	4039.5	4029.3	4001.7	3976.1	3977.1	3991.4	4002.7	4005.8
12.5°	4204.2	4200.1	4177.6	4119.3	4076.3	4020.1	3993.5	3992.5	4006.8	4016.0	4019.1
15°	4351.4	4340.2	4281.9	4186.8	4111.1	4055.9	4012.9	4002.7	3994.5	3984.3	3985.3
17.5°	4490.5	4464.9	4367.8	4235.9	4156.1	4082.5	3999.6	3933.2	3887.1	3860.5	3852.4
20°	4631.6	4581.5	4441.4	4281.9	4180.6	4046.7	3887.1	3752.1	3668.3	3629.4	3622.3
22.5°	4760.5	4679.7	4509.9	4329.9	4161.2	3926.0	3675.4	3479.1	3362.5	3310.4	3314.4
25°	4886.3	4773.8	4581.5	4363.7	4063.0	3713.3	3380.9	3139.6	3004.6	2946.3	2944.2
27.5°	4996.7	4868.9	4659.2	4336.1	3880.0	3410.6	3032.2	2797.0	2684.5	2634.4	2626.2
30°	5123.5	4988.5	4762.5	4230.7	3612.0	3060.8	2691.6	2526.0	2446.2	2396.1	2386.9
32.5°	5278.0	5151.1	4847.4	4039.5	3269.4	2695.7	2425.8	2310.2	2237.6	2181.3	2171.1
35°	5502.9	5365.9	4868.9	3765.4	2893.1	2407.3	2230.4	2111.8	2013.6	1941.0	1933.9
37.5°	5785.2	5634.9	4819.8	3410.6	2528.0	2220.2	2067.8	1921.6	1793.7	1691.5	1675.1
40°	6192.2	5965.2	4683.8	3001.5	2259.1	2076.0	1909.3	1742.6	1584.1	1464.5	1440.9
42.5°	6681.0	6352.8	4475.2	2594.5	2061.7	1929.8	1751.8	1545.2	1393.9	1309.0	1296.7
45°	7302.8	6755.7	4185.8	2238.6	1867.4	1783.5	1582.1	1391.8	1297.8	1235.4	1225.1
47.5°	8012.5	7207.7	3882.0	1949.2	1702.7	1646.5	1446.0	1323.3	1248.7	1199.6	1190.4
50°	8884.9	7718.0	3559.9	1711.9	1537.1	1481.8	1381.6	1285.5	1226.2	1188.3	1179.1
52.5°	9868.7	8293.8	3327.7	1524.8	1400.0	1360.1	1347.9	1265.0	1217.0	1188.3	1179.1
55°	10928.2	8879.8	3077.2	1367.3	1281.4	1292.6	1325.4	1267.1	1234.4	1199.6	1186.3
57.5°	11988.7	9485.2	2798.0	1234.4	1187.3	1242.5	1310.0	1271.2	1243.6	1209.8	1197.5
60°	12827.2	9868.7	2365.4	1122.9	1112.7	1187.3	1273.2	1240.5	1204.7	1205.7	1203.7
62.5°	13218.9	9848.2	1887.8	1023.7	1038.0	1112.7	1213.9	1192.4	1162.8	1202.6	1205.7
65°	12999.0	9357.3	1469.6	933.7	958.2	1034.9	1152.5	1168.9	1179.1	1255.8	1266.1
67.5°	12076.6	8402.2	1138.2	854.9	885.6	981.8	1158.7	1273.2	1286.5	1367.3	1366.3
69°	11122.5	7506.3	988.9	814.0	849.8	995.0	1238.4	1339.7	1289.6	1375.5	1363.2
70°	10322.7	6797.6	909.1	786.4	833.5	1018.6	1291.6	1338.7	1274.2	1347.9	1327.4
72.5°	7950.2	4890.4	771.1	735.3	778.2	974.6	1307.0	1309.0	1238.4	1252.8	1218.0
75°	5452.8	3090.5	672.9	665.8	694.4	878.5	1257.9	1250.7	1145.4	1124.9	1096.3
77.5°	3006.6	1569.8	571.7	599.3	618.7	778.2	1143.3	1133.1	1046.2	1003.2	993.0
80°	1159.7	687.2	482.7	532.8	545.1	673.9	1002.2	993.0	920.4	865.2	849.8
82.5°	437.7	360.0	398.8	461.2	457.1	556.3	848.8	843.7	773.1	692.3	667.8
85°	202.5	215.8	316.0	380.4	350.8	412.1	679.0	688.3	602.3	506.2	506.2
87.5°	85.9	120.7	224.0	287.4	236.2	278.2	498.0	475.5	436.7	302.7	284.3
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)