

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: P318408

Luminaire Tested: **GAN-SA4C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318408
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-SA4C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28539 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

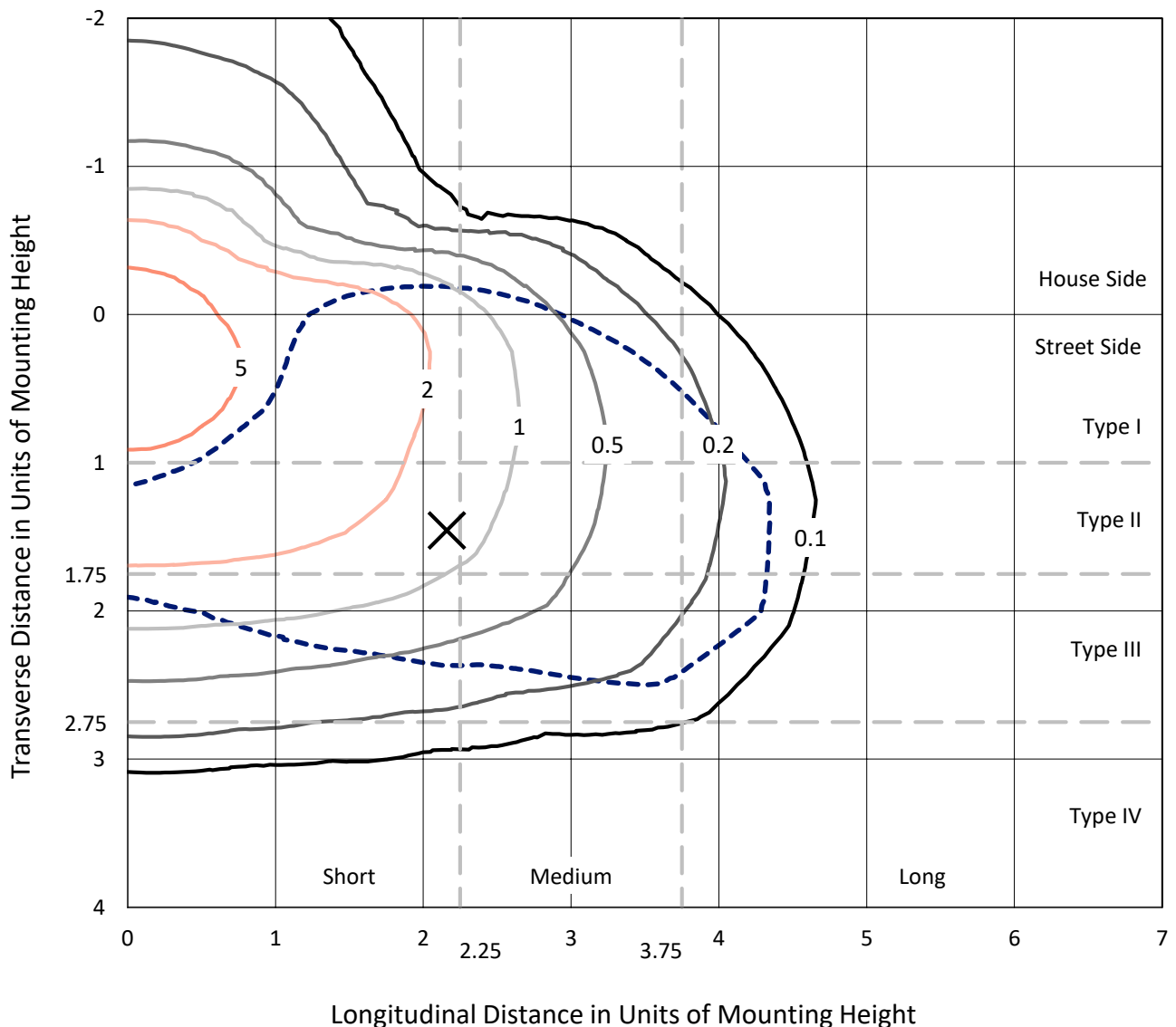
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

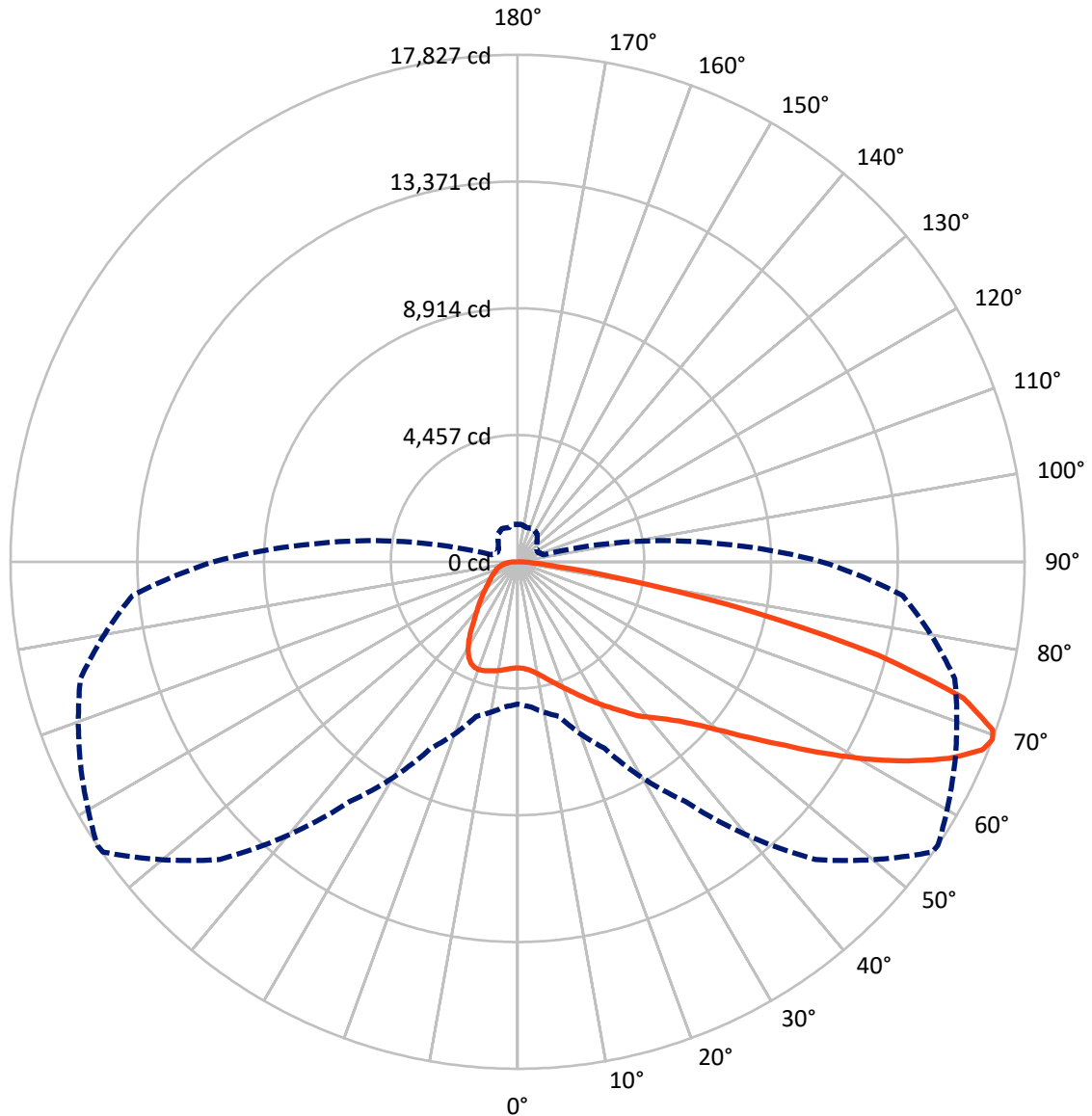
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6355.6	0.0	6355.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22183.4	0.0	22183.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	28539.0	0.0	28539.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.3
10°-20°	1178.4	4.1
20°-30°	2056.9	7.2
30°-40°	2954.7	10.4
40°-50°	4089.2	14.3
50°-60°	5991.2	21.0
60°-70°	7304.4	25.6
70°-80°	4038.4	14.2
80°-90°	559.3	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°	28539.0	100.0
0°-180°	28539.0	100.0



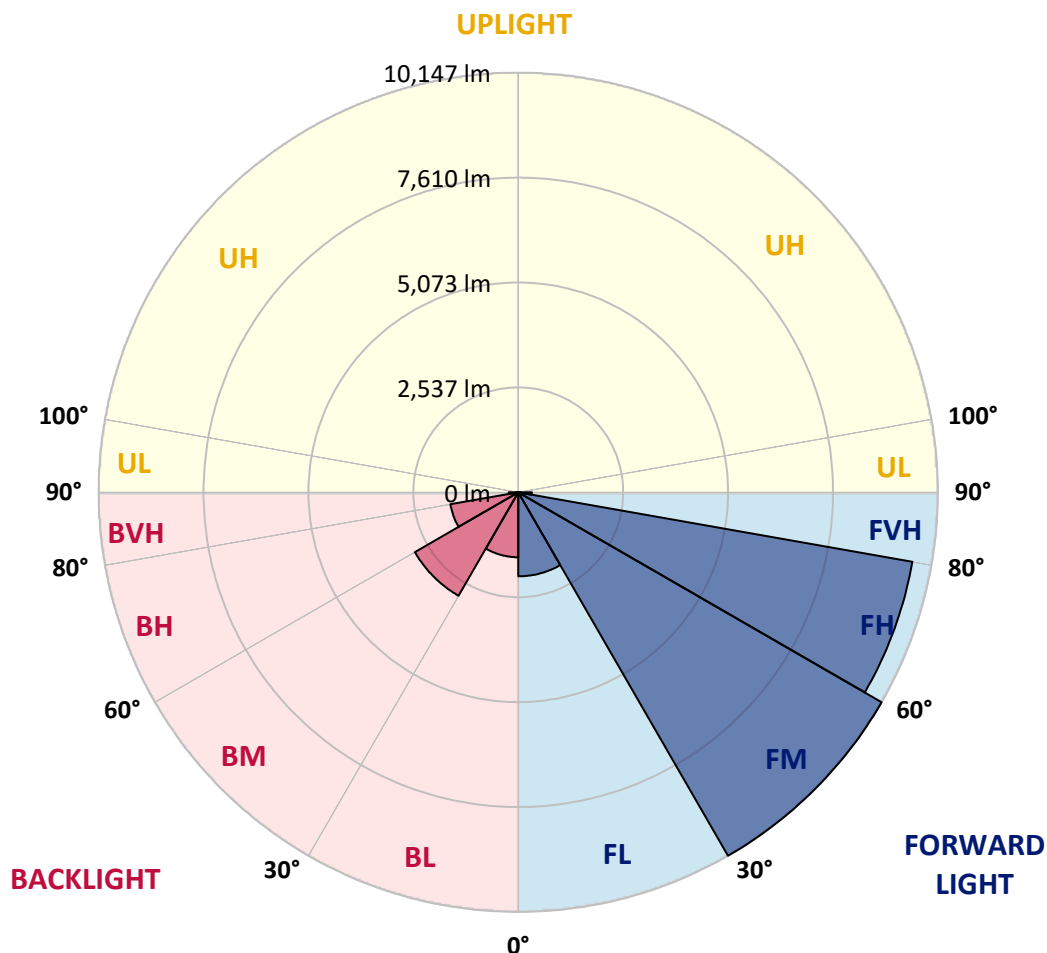
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.1	7.1			
FM (30°-60°)	10146.7	35.6			
FH (60°-80°)	9676.2	33.9			G4/12000
FVH (80°-90°)	329.5	1.2			G3/500
BL (0°-30°)	1570.6	5.5	B3/2500		
BM (30°-60°)	2888.5	10.1	B3/5000		
BH (60°-80°)	1666.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	229.9	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°	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0
2.5°	3754.6	3758.6	3755.6	3763.5	3754.6	3760.5	3755.6	3755.6	3752.7	3743.8	3734.0
5°	3813.6	3821.5	3816.6	3824.4	3813.6	3815.6	3806.7	3806.7	3797.9	3779.2	3759.6
7.5°	3906.0	3914.9	3911.0	3918.8	3904.1	3904.1	3892.3	3891.3	3873.6	3843.1	3820.5
10°	4016.2	4028.0	4024.0	4035.8	4024.0	4028.0	4016.2	4016.2	3992.6	3949.3	3920.8
12.5°	4176.4	4191.2	4180.3	4179.4	4174.4	4182.3	4172.5	4170.5	4148.9	4089.9	4050.6
15°	4390.7	4406.5	4383.9	4381.9	4354.4	4351.4	4351.4	4348.5	4334.7	4263.9	4199.0
17.5°	4637.5	4642.4	4622.8	4591.3	4555.9	4533.3	4530.3	4538.2	4538.2	4455.6	4352.4
20°	4879.4	4888.2	4872.5	4837.1	4791.9	4758.4	4734.8	4750.6	4749.6	4651.3	4504.8
22.5°	5142.8	5163.5	5139.9	5094.7	5041.6	5004.2	4962.9	4976.7	4977.7	4856.7	4654.2
25°	5484.0	5465.3	5450.6	5386.7	5311.0	5272.6	5234.3	5248.0	5244.1	5078.0	4808.6
27.5°	5785.8	5789.8	5770.1	5702.3	5614.8	5530.2	5528.2	5537.1	5522.3	5308.0	4954.1
30°	6136.8	6138.8	6111.2	6050.3	5954.9	5845.8	5820.2	5835.0	5803.5	5526.3	5107.5
32.5°	6485.8	6495.7	6465.2	6391.4	6314.8	6182.0	6130.9	6140.7	6062.1	5749.4	5265.7
35°	6791.6	6805.3	6795.5	6746.4	6662.8	6548.7	6487.8	6481.9	6384.6	6022.8	5475.1
37.5°	7103.2	7116.0	7105.2	7063.9	7030.5	6909.6	6877.1	6877.1	6708.0	6302.0	5741.6
40°	7423.7	7443.4	7430.6	7373.6	7345.1	7290.0	7212.4	7193.7	7010.8	6637.2	6176.1
42.5°	7721.6	7747.2	7798.3	7764.9	7706.9	7714.8	7558.4	7548.6	7414.9	7132.7	6721.8
45°	8144.4	8181.8	8268.3	8242.7	8230.9	8187.7	8001.8	7993.0	7941.9	7799.3	7399.2
47.5°	8605.5	8656.6	8812.9	8817.8	8944.7	8863.1	8610.4	8579.9	8591.7	8597.6	8226.0
50°	9030.2	9086.2	9342.9	9463.8	9762.7	9780.4	9376.3	9348.7	9395.0	9530.6	9189.5
52.5°	9369.4	9440.2	9760.7	10134.3	10646.5	10792.0	10319.1	10298.5	10332.9	10566.9	10278.8
55°	9618.1	9694.8	10043.8	10724.2	11542.2	11798.8	11404.5	11384.8	11406.5	11704.4	11463.5
57.5°	9676.1	9694.8	10201.1	11121.4	12298.2	12914.6	12732.7	12693.4	12587.2	12846.8	12771.1
60°	9403.8	9478.5	10071.4	11261.0	12883.2	14014.8	14120.9	14071.8	13773.9	13986.3	13925.3
62.5°	8851.3	8985.0	9586.7	11048.6	13112.2	14913.4	15482.6	15423.6	14910.4	15048.1	14755.1
65°	7948.7	8005.8	8637.9	10316.2	12821.2	15488.5	16696.8	16667.3	16021.4	15806.1	14908.4
67.5°	6334.4	6441.6	6978.4	8785.4	11630.6	15420.7	17635.7	17632.7	16746.9	16087.2	14364.8
69°	5004.2	5115.3	5626.6	7236.9	10291.6	14800.3	17793.0	17827.4	16951.4	15916.2	13588.1
70°	3989.6	4118.4	4469.4	6095.5	9103.0	13982.3	17662.2	17724.2	16912.1	15634.0	12871.4
72.5°	1697.9	1802.1	2051.8	3142.1	5547.9	10441.0	16149.2	16383.2	16000.7	14308.7	10637.7
75°	741.3	773.7	886.8	1281.0	2462.8	5682.6	12651.1	13083.7	13681.5	12094.7	7924.2
77.5°	542.7	556.5	618.4	752.1	1105.1	2146.2	8135.5	8387.2	9866.9	8801.1	4860.7
80°	419.8	429.6	477.8	552.5	721.6	868.1	3710.4	3926.7	5547.9	4520.5	2024.3
82.5°	334.3	341.2	374.6	407.0	498.5	526.0	1231.9	1366.6	2047.9	1248.6	535.8
85°	310.7	318.5	330.3	296.9	319.5	308.7	532.9	557.4	618.4	490.6	224.2
87.5°	140.6	166.2	327.4	231.0	170.1	135.7	218.3	228.1	256.6	257.6	99.3
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°	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0
2.5°	3739.9	3736.9	3741.9	3730.1	3744.8	3743.8	3738.9	3740.9	3750.7	3749.7	3750.7
5°	3762.5	3760.5	3766.4	3757.6	3775.3	3781.2	3782.2	3791.0	3801.8	3804.8	3804.8
7.5°	3819.5	3819.5	3822.5	3810.7	3822.5	3821.5	3816.6	3825.4	3836.2	3837.2	3836.2
10°	3917.8	3918.8	3913.9	3883.4	3873.6	3847.1	3822.5	3823.5	3837.2	3848.0	3851.0
12.5°	4041.7	4037.8	4016.2	3960.1	3918.8	3864.8	3839.2	3838.2	3852.0	3860.8	3863.8
15°	4183.3	4172.5	4116.4	4025.0	3952.3	3899.2	3857.9	3848.0	3840.2	3830.3	3831.3
17.5°	4317.0	4292.4	4199.0	4072.2	3995.5	3924.7	3845.1	3781.2	3736.9	3711.4	3703.5
20°	4452.7	4404.5	4269.8	4116.4	4019.1	3890.3	3736.9	3607.2	3526.5	3489.2	3482.3
22.5°	4576.6	4498.9	4335.7	4162.6	4000.4	3774.3	3533.4	3344.7	3232.6	3182.4	3186.4
25°	4697.5	4589.3	4404.5	4195.1	3906.0	3569.8	3250.3	3018.3	2888.5	2832.4	2830.5
27.5°	4803.7	4680.8	4479.2	4168.5	3730.1	3278.8	2915.0	2688.9	2580.8	2532.6	2524.7
30°	4925.6	4795.8	4578.5	4067.3	3472.5	2942.6	2587.6	2428.4	2351.7	2303.5	2294.7
32.5°	5074.0	4952.1	4660.1	3883.4	3143.1	2591.6	2332.0	2220.9	2151.1	2097.1	2087.2
35°	5290.3	5158.6	4680.8	3619.9	2781.3	2314.3	2144.2	2030.2	1935.8	1866.0	1859.1
37.5°	5561.7	5417.1	4633.6	3278.8	2430.3	2134.4	1987.9	1847.3	1724.4	1626.1	1610.4
40°	5953.0	5734.7	4502.8	2885.5	2171.8	1995.8	1835.5	1675.3	1522.9	1407.9	1385.3
42.5°	6422.9	6107.3	4302.3	2494.2	1982.0	1855.2	1684.1	1485.5	1340.0	1258.4	1246.6
45°	7020.7	6494.7	4024.0	2152.1	1795.2	1714.6	1520.9	1338.1	1247.6	1187.6	1177.8
47.5°	7703.0	6929.2	3732.0	1873.9	1636.9	1582.9	1390.2	1272.2	1200.4	1153.2	1144.4
50°	8541.6	7419.8	3422.3	1645.8	1477.7	1424.6	1328.2	1235.8	1178.8	1142.4	1133.6
52.5°	9487.4	7973.3	3199.2	1465.9	1345.9	1307.6	1295.8	1216.2	1169.9	1142.4	1133.6
55°	10505.9	8536.7	2958.3	1314.5	1231.9	1242.7	1274.2	1218.1	1186.7	1153.2	1140.5
57.5°	11525.4	9118.7	2689.9	1186.7	1141.4	1194.5	1259.4	1222.1	1195.5	1163.1	1151.3
60°	12331.6	9487.4	2274.0	1079.5	1069.7	1141.4	1224.0	1192.6	1158.1	1159.1	1157.2
62.5°	12708.2	9467.7	1814.9	984.1	997.9	1069.7	1167.0	1146.3	1117.8	1156.2	1159.1
65°	12496.8	8995.8	1412.8	897.6	921.2	994.9	1108.0	1123.7	1133.6	1207.3	1217.1
67.5°	11610.0	8077.5	1094.2	821.9	851.4	943.8	1113.9	1224.0	1236.8	1314.5	1313.5
69°	10692.7	7216.3	950.7	782.6	817.0	956.6	1190.6	1287.9	1239.7	1322.3	1310.5
70°	9923.9	6535.0	874.0	756.0	801.3	979.2	1241.7	1286.9	1225.0	1295.8	1276.1
72.5°	7643.0	4701.4	741.3	706.9	748.2	936.9	1256.5	1258.4	1190.6	1204.4	1170.9
75°	5242.1	2971.1	646.9	640.0	667.6	844.5	1209.3	1202.4	1101.1	1081.5	1053.9
77.5°	2890.5	1509.1	549.6	576.1	594.8	748.2	1099.2	1089.3	1005.8	964.5	954.6
80°	1114.9	660.7	464.0	512.2	524.0	647.9	963.5	954.6	884.8	831.7	817.0
82.5°	420.8	346.1	383.4	443.4	439.5	534.8	816.0	811.1	743.3	665.6	642.0
85°	194.7	207.4	303.8	365.7	337.2	396.2	652.8	661.7	579.1	486.7	486.7
87.5°	82.6	116.0	215.3	276.3	227.1	267.4	478.8	457.2	419.8	291.0	273.3
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)