

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: P318448

Luminaire Tested: **GAN-SA4C-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318448
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-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28538 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

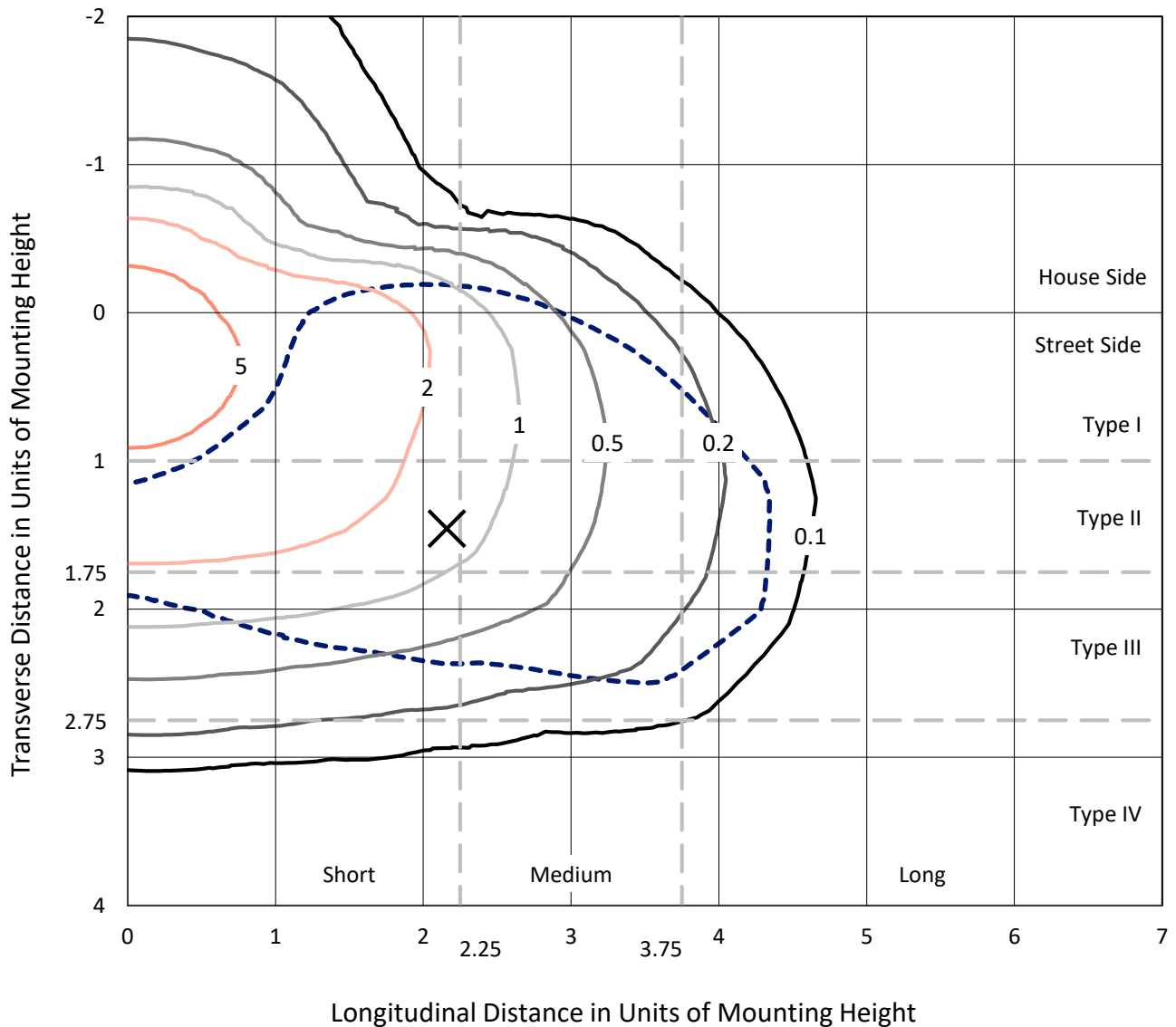
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

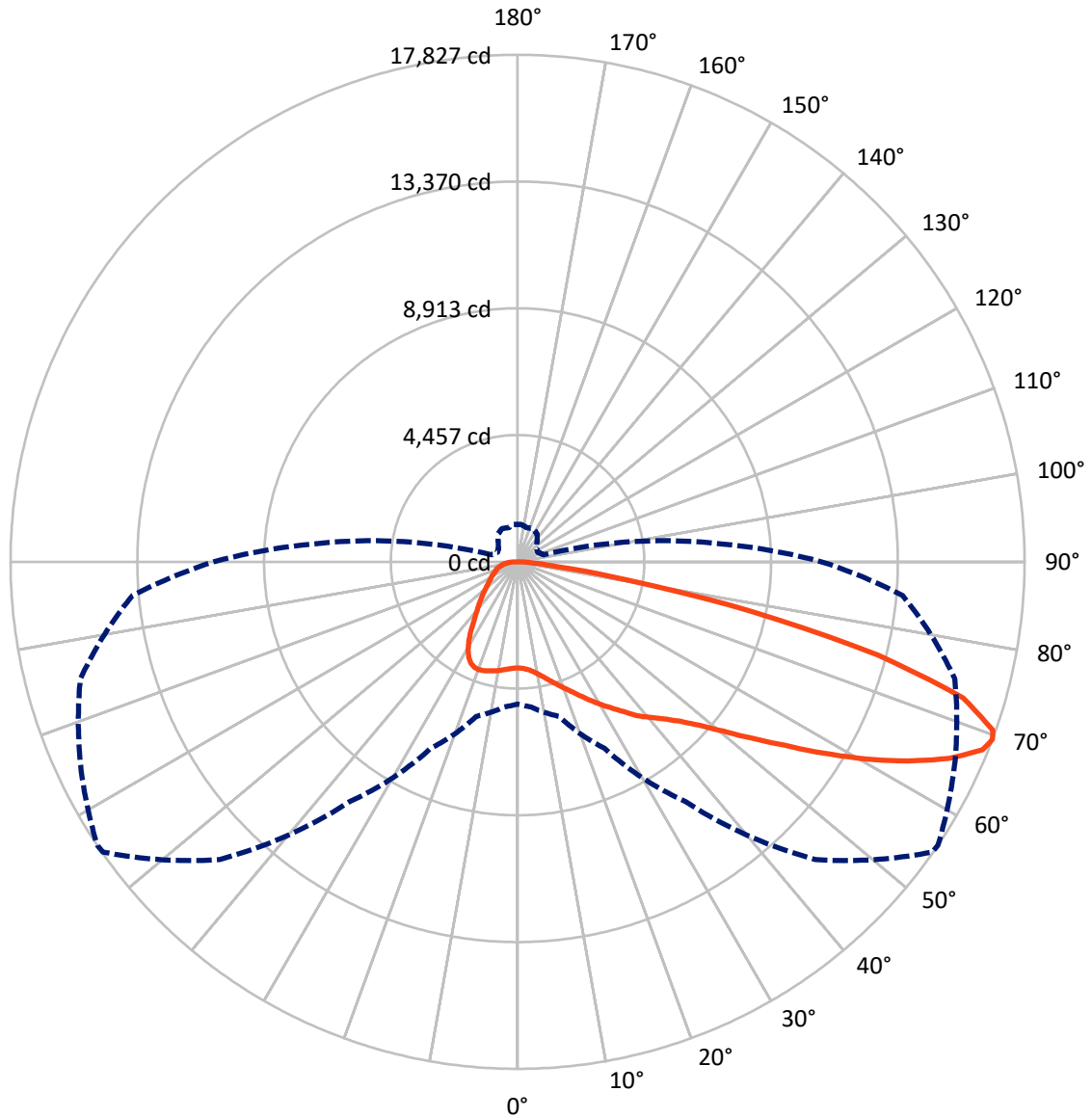
✕ Max cd
 - - - 1/2 Max cd



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	6355.4	0.0	6355.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22182.6	0.0	22182.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	28538.0	0.0	28538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.3
10°-20°	1178.3	4.1
20°-30°	2056.9	7.2
30°-40°	2954.6	10.4
40°-50°	4089.0	14.3
50°-60°	5991.0	21.0
60°-70°	7304.2	25.6
70°-80°	4038.2	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°	28538.0	100.0
0°-180°	28538.0	100.0

Coefficient of Utilization

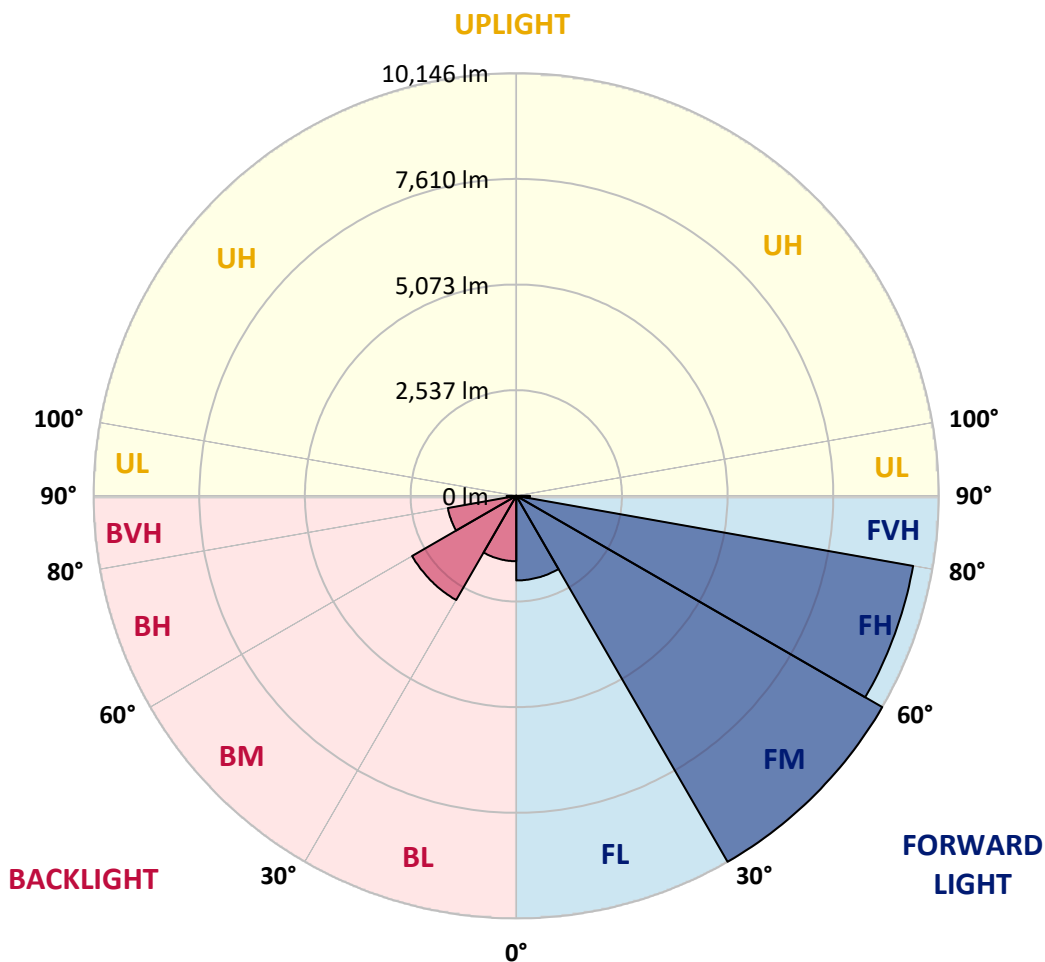


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.1	7.1			
FM (30°-60°)	10146.3	35.6			
FH (60°-80°)	9675.8	33.9			G4/12000
FVH (80°-90°)	329.4	1.2			G3/500
BL (0°-30°)	1570.6	5.5	B3/2500		
BM (30°-60°)	2888.4	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°	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9
2.5°	3754.5	3758.4	3755.5	3763.4	3754.5	3760.4	3755.5	3755.5	3752.5	3743.7	3733.9
5°	3813.5	3821.4	3816.4	3824.3	3813.5	3815.5	3806.6	3806.6	3797.8	3779.1	3759.4
7.5°	3905.9	3914.8	3910.8	3918.7	3903.9	3903.9	3892.1	3891.2	3873.5	3843.0	3820.4
10°	4016.0	4027.8	4023.9	4035.7	4023.9	4027.8	4016.0	4016.0	3992.4	3949.2	3920.7
12.5°	4176.3	4191.0	4180.2	4179.2	4174.3	4182.2	4172.3	4170.4	4148.7	4089.8	4050.4
15°	4390.6	4406.3	4383.7	4381.7	4354.2	4351.3	4351.3	4348.3	4334.5	4263.8	4198.9
17.5°	4637.3	4642.3	4622.6	4591.1	4555.7	4533.1	4530.2	4538.0	4538.0	4455.5	4352.2
20°	4879.2	4888.0	4872.3	4836.9	4791.7	4758.3	4734.7	4750.4	4749.4	4651.1	4504.6
22.5°	5142.7	5163.3	5139.7	5094.5	5041.4	5004.0	4962.8	4976.5	4977.5	4856.6	4654.1
25°	5483.8	5465.1	5450.4	5386.5	5310.8	5272.4	5234.1	5247.9	5243.9	5077.8	4808.4
27.5°	5785.6	5789.6	5769.9	5702.1	5614.6	5530.0	5528.0	5536.9	5522.1	5307.8	4953.9
30°	6136.6	6138.6	6111.0	6050.1	5954.7	5845.6	5820.0	5834.8	5803.3	5526.1	5107.3
32.5°	6485.6	6495.4	6465.0	6391.2	6314.5	6181.8	6130.7	6140.5	6061.9	5749.2	5265.6
35°	6791.3	6805.1	6795.3	6746.1	6662.6	6548.5	6487.6	6481.7	6384.3	6022.6	5475.0
37.5°	7103.0	7115.8	7105.0	7063.7	7030.2	6909.3	6876.9	6876.9	6707.8	6301.8	5741.4
40°	7423.5	7443.1	7430.4	7373.3	7344.8	7289.8	7212.1	7193.4	7010.6	6637.0	6175.9
42.5°	7721.4	7746.9	7798.1	7764.6	7706.6	7714.5	7558.2	7548.3	7414.6	7132.5	6721.5
45°	8144.1	8181.5	8268.0	8242.4	8230.6	8187.4	8001.6	7992.7	7941.6	7799.0	7398.9
47.5°	8605.2	8656.3	8812.6	8817.5	8944.4	8862.8	8610.1	8579.6	8591.4	8597.3	8225.7
50°	9029.9	9085.9	9342.5	9463.4	9762.3	9780.0	9375.9	9348.4	9394.6	9530.3	9189.2
52.5°	9369.1	9439.9	9760.3	10133.9	10646.1	10791.6	10318.8	10298.1	10332.5	10566.5	10278.4
55°	9617.8	9694.5	10043.5	10723.8	11541.7	11798.3	11404.1	11384.4	11406.1	11704.0	11463.1
57.5°	9675.8	9694.5	10200.8	11121.0	12297.8	12914.2	12732.3	12693.0	12586.8	12846.3	12770.6
60°	9403.5	9478.2	10071.0	11260.6	12882.7	14014.3	14120.5	14071.3	13773.4	13985.8	13924.8
62.5°	8851.0	8984.7	9586.3	11048.2	13111.8	14912.8	15482.1	15423.1	14909.9	15047.5	14754.6
65°	7948.5	8005.5	8637.6	10315.8	12820.8	15488.0	16696.2	16666.7	16020.8	15805.5	14907.9
67.5°	6334.2	6441.4	6978.1	8785.1	11630.2	15420.1	17635.1	17632.1	16746.3	16086.7	14364.3
69°	5004.0	5115.1	5626.4	7236.7	10291.2	14799.8	17792.4	17826.8	16950.8	15915.6	13587.6
70°	3989.5	4118.3	4469.2	6095.3	9102.6	13981.8	17661.6	17723.6	16911.5	15633.5	12870.9
72.5°	1697.8	1802.0	2051.8	3142.0	5547.7	10440.7	16148.6	16382.6	16000.2	14308.2	10637.3
75°	741.3	773.7	886.8	1281.0	2462.7	5682.4	12650.7	13083.3	13681.0	12094.3	7923.9
77.5°	542.7	556.4	618.4	752.1	1105.0	2146.1	8135.3	8386.9	9866.5	8800.8	4860.5
80°	419.8	429.6	477.8	552.5	721.6	868.1	3710.3	3926.6	5547.7	4520.4	2024.2
82.5°	334.3	341.1	374.6	407.0	498.4	526.0	1231.8	1366.5	2047.8	1248.6	535.8
85°	310.7	318.5	330.3	296.9	319.5	308.7	532.8	557.4	618.4	490.6	224.1
87.5°	140.6	166.1	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°	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9	3730.9
2.5°	3739.8	3736.8	3741.7	3729.9	3744.7	3743.7	3738.8	3740.7	3750.6	3749.6	3750.6
5°	3762.4	3760.4	3766.3	3757.5	3775.2	3781.1	3782.0	3790.9	3801.7	3804.6	3804.6
7.5°	3819.4	3819.4	3822.3	3810.5	3822.3	3821.4	3816.4	3825.3	3836.1	3837.1	3836.1
10°	3917.7	3918.7	3913.8	3883.3	3873.5	3846.9	3822.3	3823.3	3837.1	3847.9	3850.9
12.5°	4041.6	4037.6	4016.0	3960.0	3918.7	3864.6	3839.1	3838.1	3851.8	3860.7	3863.6
15°	4183.1	4172.3	4116.3	4024.9	3952.1	3899.0	3857.7	3847.9	3840.0	3830.2	3831.2
17.5°	4316.8	4292.3	4198.9	4072.1	3995.4	3924.6	3845.0	3781.1	3736.8	3711.3	3703.4
20°	4452.5	4404.3	4269.7	4116.3	4019.0	3890.2	3736.8	3607.0	3526.4	3489.1	3482.2
22.5°	4576.4	4498.7	4335.5	4162.5	4000.3	3774.2	3533.3	3344.6	3232.5	3182.3	3186.3
25°	4697.3	4589.2	4404.3	4194.9	3905.9	3569.7	3250.2	3018.2	2888.4	2832.3	2830.4
27.5°	4803.5	4680.6	4479.1	4168.4	3729.9	3278.7	2914.9	2688.8	2580.7	2532.5	2524.6
30°	4925.4	4795.6	4578.4	4067.1	3472.4	2942.5	2587.6	2428.3	2351.6	2303.4	2294.6
32.5°	5073.8	4951.9	4660.0	3883.3	3143.0	2591.5	2331.9	2220.9	2151.1	2097.0	2087.1
35°	5290.1	5158.4	4680.6	3619.8	2781.2	2314.2	2144.2	2030.1	1935.7	1865.9	1859.1
37.5°	5561.5	5417.0	4633.4	3278.7	2430.3	2134.3	1987.9	1847.3	1724.4	1626.1	1610.3
40°	5952.7	5734.5	4502.7	2885.4	2171.7	1995.7	1835.5	1675.2	1522.8	1407.8	1385.2
42.5°	6422.7	6107.1	4302.1	2494.2	1982.0	1855.1	1684.1	1485.5	1340.0	1258.4	1246.6
45°	7020.4	6494.4	4023.9	2152.0	1795.2	1714.5	1520.9	1338.0	1247.6	1187.6	1177.8
47.5°	7702.7	6929.0	3731.9	1873.8	1636.9	1582.8	1390.1	1272.1	1200.4	1153.2	1144.3
50°	8541.3	7419.6	3422.2	1645.7	1477.6	1424.5	1328.2	1235.8	1178.8	1142.4	1133.5
52.5°	9487.0	7973.0	3199.0	1465.8	1345.9	1307.5	1295.7	1216.1	1169.9	1142.4	1133.5
55°	10505.5	8536.4	2958.2	1314.4	1231.8	1242.7	1274.1	1218.1	1186.6	1153.2	1140.4
57.5°	11525.0	9118.4	2689.8	1186.6	1141.4	1194.5	1259.4	1222.0	1195.5	1163.0	1151.2
60°	12331.2	9487.0	2273.9	1079.5	1069.6	1141.4	1224.0	1192.5	1158.1	1159.1	1157.1
62.5°	12707.7	9467.4	1814.8	984.1	997.9	1069.6	1167.0	1146.3	1117.8	1156.1	1159.1
65°	12496.3	8995.5	1412.7	897.6	921.2	994.9	1108.0	1123.7	1133.5	1207.3	1217.1
67.5°	11609.6	8077.3	1094.2	821.9	851.4	943.8	1113.9	1224.0	1236.8	1314.4	1313.4
69°	10692.3	7216.0	950.7	782.6	817.0	956.6	1190.5	1287.9	1239.7	1322.3	1310.5
70°	9923.5	6534.8	874.0	756.0	801.2	979.2	1241.7	1286.9	1225.0	1295.7	1276.1
72.5°	7642.7	4701.2	741.3	706.9	748.1	936.9	1256.4	1258.4	1190.5	1204.3	1170.9
75°	5242.0	2971.0	646.9	640.0	667.5	844.5	1209.2	1202.3	1101.1	1081.4	1053.9
77.5°	2890.4	1509.1	549.6	576.1	594.8	748.1	1099.1	1089.3	1005.7	964.4	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	743.2	665.6	642.0
85°	194.7	207.4	303.8	365.7	337.2	396.2	652.8	661.6	579.1	486.6	486.6
87.5°	82.6	116.0	215.3	276.3	227.1	267.4	478.8	457.1	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)