

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: P318329

Luminaire Tested: **GAN-SA5C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318329
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-SA5C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29569 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

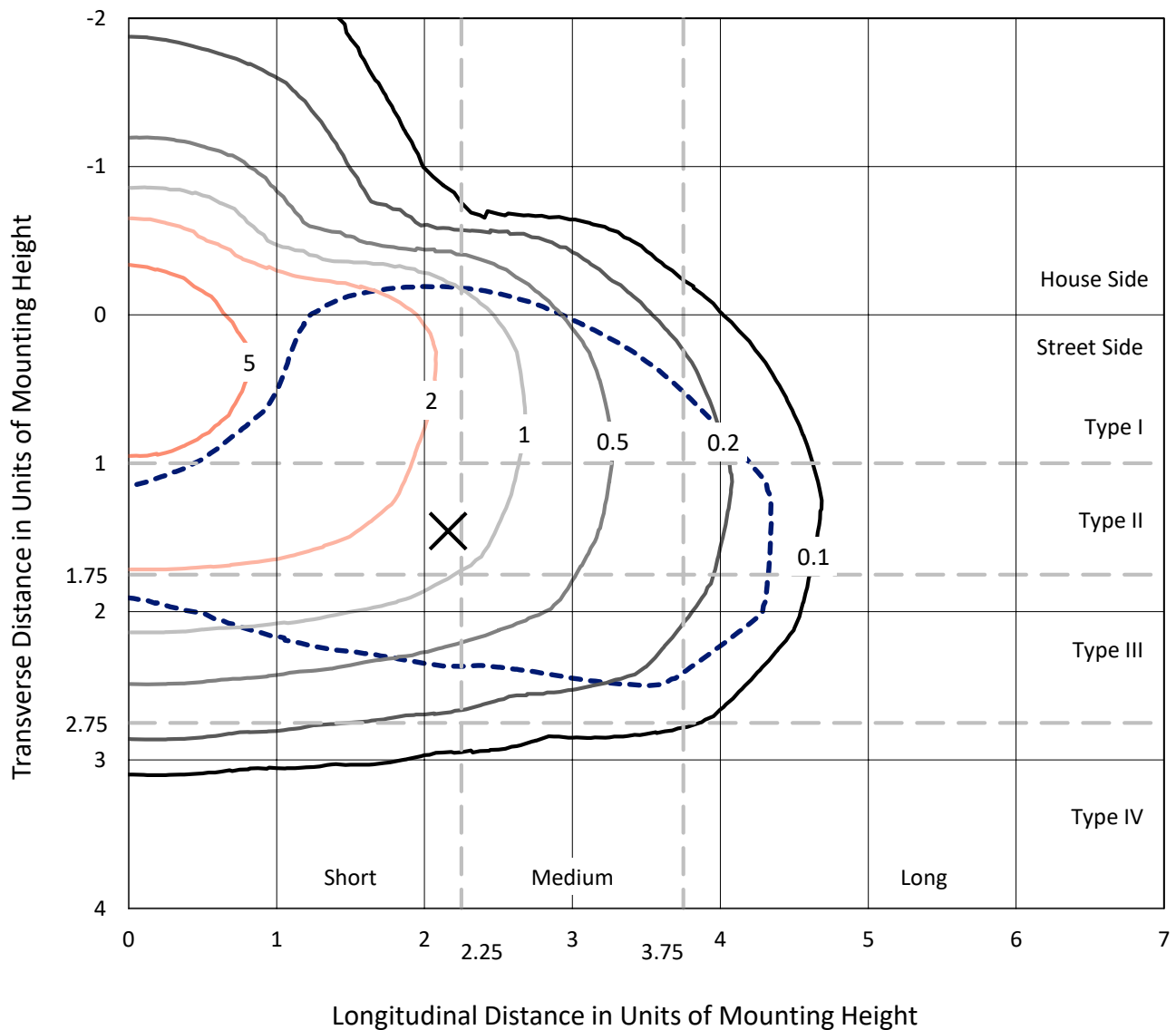
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

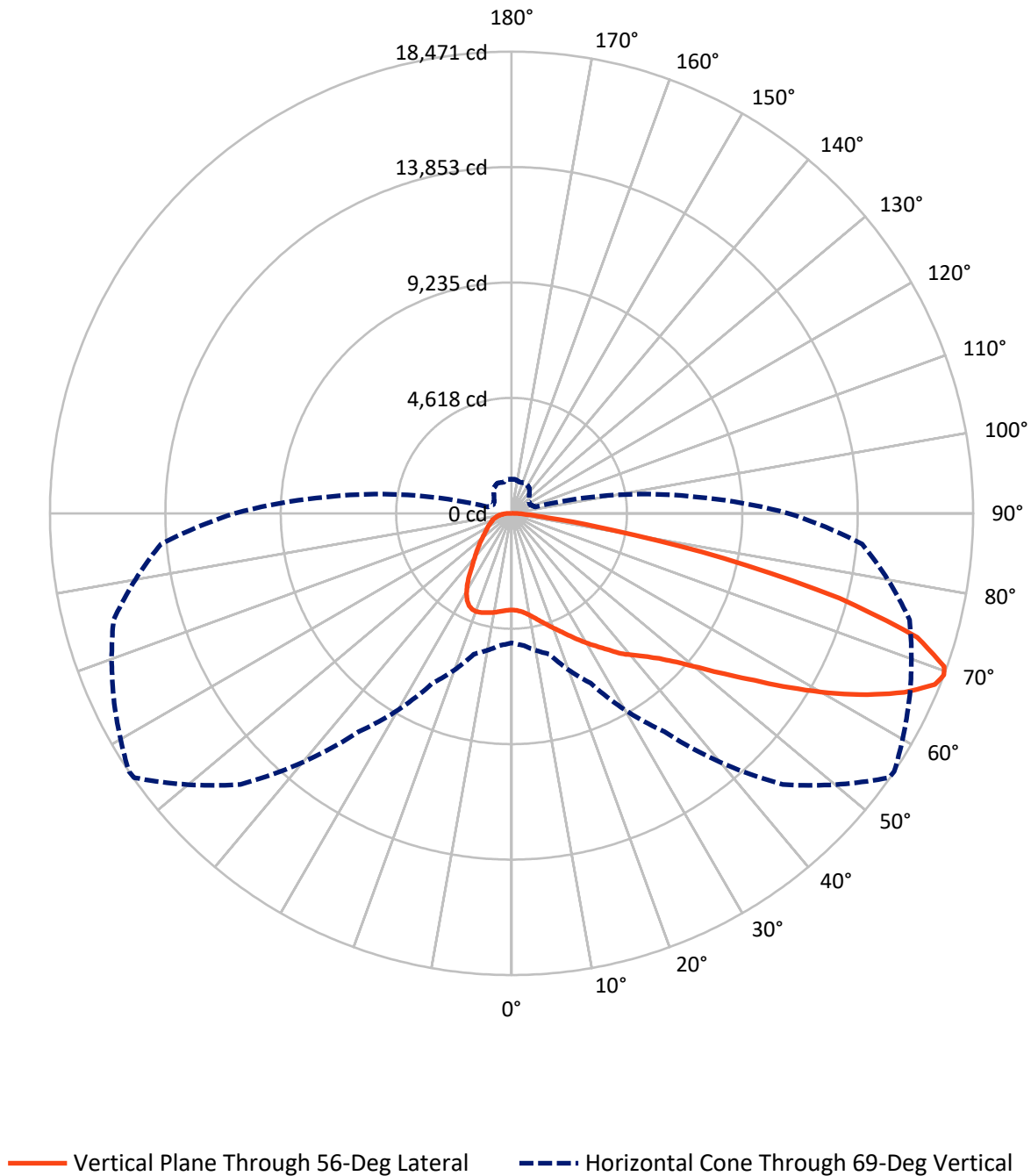
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6585.0	0.0	6585.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22984.0	0.0	22984.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	29569.0	0.0	29569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.7	1.3
10°-20°	1220.9	4.1
20°-30°	2131.2	7.2
30°-40°	3061.4	10.4
40°-50°	4236.8	14.3
50°-60°	6207.5	21.0
60°-70°	7568.1	25.6
70°-80°	4184.1	14.2
80°-90°	579.5	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°	29569.0	100.0
0°-180°	29569.0	100.0

Coefficient of Utilization



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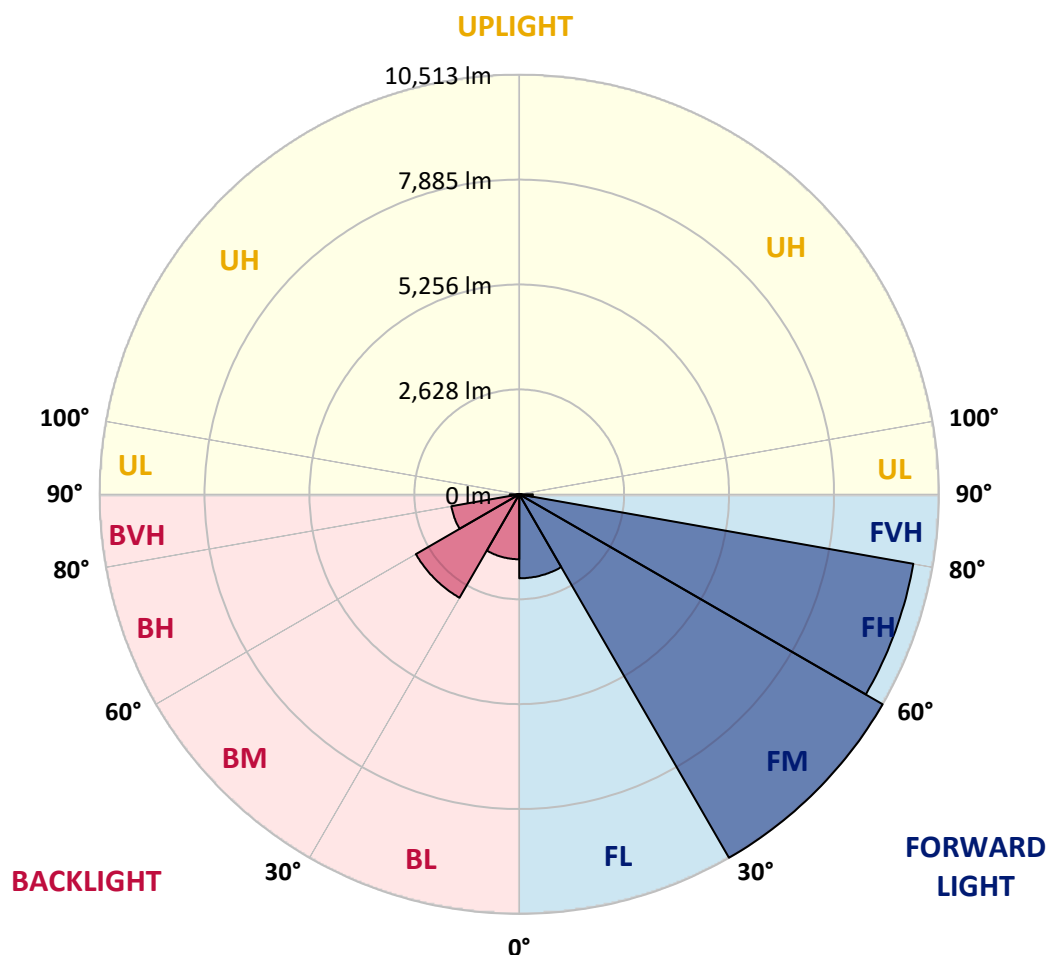
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2104.4	7.1			
FM	(30°-60°)	10512.9	35.6			
FH	(60°-80°)	10025.4	33.9			G4/12000
FVH	(80°-90°)	341.3	1.2			G3/500
BL	(0°-30°)	1627.3	5.5	B3/2500		
BM	(30°-60°)	2992.7	10.1	B3/5000		
BH	(60°-80°)	1726.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	238.2	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°	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7
2.5°	3890.1	3894.2	3891.2	3899.3	3890.1	3896.3	3891.2	3891.2	3888.1	3878.9	3868.8
5°	3951.3	3959.4	3954.3	3962.5	3951.3	3953.3	3944.1	3944.1	3935.0	3915.6	3895.2
7.5°	4047.0	4056.2	4052.1	4060.3	4045.0	4045.0	4032.8	4031.7	4013.4	3981.8	3958.4
10°	4161.1	4173.3	4169.3	4181.5	4169.3	4173.3	4161.1	4161.1	4136.7	4091.8	4062.3
12.5°	4327.1	4342.4	4331.2	4330.2	4325.1	4333.3	4323.1	4321.0	4298.6	4237.5	4196.8
15°	4549.2	4565.5	4542.1	4540.0	4511.5	4508.5	4508.5	4505.4	4491.1	4417.8	4350.6
17.5°	4804.9	4810.0	4789.6	4757.0	4720.3	4696.9	4693.8	4702.0	4702.0	4616.4	4509.5
20°	5055.5	5064.6	5048.3	5011.7	4964.8	4930.2	4905.7	4922.0	4921.0	4819.1	4667.4
22.5°	5328.5	5349.8	5325.4	5278.5	5223.5	5184.8	5142.0	5156.3	5157.3	5032.0	4822.2
25°	5681.9	5662.6	5647.3	5581.1	5502.6	5462.9	5423.2	5437.4	5433.4	5261.2	4982.1
27.5°	5994.6	5998.7	5978.3	5908.1	5817.4	5729.8	5727.8	5736.9	5721.6	5499.6	5132.9
30°	6358.3	6360.3	6331.8	6268.7	6169.8	6056.8	6030.3	6045.6	6013.0	5725.7	5291.8
32.5°	6719.9	6730.1	6698.5	6622.1	6542.7	6405.1	6352.2	6362.4	6280.9	5956.9	5455.8
35°	7036.7	7051.0	7040.8	6989.8	6903.3	6785.1	6721.9	6715.8	6615.0	6240.1	5672.8
37.5°	7359.6	7372.8	7361.6	7318.9	7284.2	7158.9	7125.3	7125.3	6950.1	6529.4	5948.8
40°	7691.7	7712.0	7698.8	7639.7	7610.2	7553.1	7472.7	7453.3	7263.9	6876.8	6399.0
42.5°	8000.3	8026.8	8079.8	8045.1	7985.0	7993.2	7831.2	7821.0	7682.5	7390.2	6964.4
45°	8438.3	8477.0	8566.7	8540.2	8528.0	8483.2	8290.6	8281.5	8228.5	8080.8	7666.2
47.5°	8916.1	8969.0	9131.0	9136.1	9267.5	9183.0	8921.2	8889.6	8901.8	8907.9	8522.9
50°	9356.1	9414.2	9680.0	9805.3	10115.0	10133.3	9714.7	9686.2	9734.0	9874.6	9521.1
52.5°	9707.5	9780.9	10113.0	10500.0	11030.7	11181.5	10691.5	10670.2	10705.8	10948.2	10649.8
55°	9965.3	10044.7	10406.3	11111.2	11958.7	12224.6	11816.1	11795.7	11818.1	12126.8	11877.2
57.5°	10025.4	10044.7	10569.3	11522.7	12742.0	13380.7	13192.3	13151.5	13041.5	13310.4	13232.0
60°	9743.2	9820.6	10434.8	11667.4	13348.1	14520.6	14630.6	14579.7	14271.0	14491.0	14427.9
62.5°	9170.7	9309.3	9932.7	11447.4	13585.5	15451.6	16041.4	15980.3	15448.5	15591.2	15287.6
65°	8235.6	8294.7	8949.7	10688.5	13284.0	16047.5	17299.4	17268.8	16599.6	16376.5	15446.5
67.5°	6563.0	6674.1	7230.2	9102.5	12050.4	15977.2	18272.2	18269.1	17351.3	16667.8	14883.2
69°	5184.8	5299.9	5829.6	7498.1	10663.0	15334.5	18435.2	18470.8	17563.2	16490.6	14078.5
70°	4133.6	4267.0	4630.7	6315.5	9431.5	14487.0	18299.7	18363.9	17522.5	16198.3	13335.9
72.5°	1759.2	1867.1	2125.9	3255.5	5748.1	10817.9	16732.0	16974.5	16578.2	14825.1	11021.6
75°	768.0	801.7	918.8	1327.3	2551.7	5887.7	13107.7	13555.9	14175.3	12531.2	8210.2
77.5°	562.3	576.5	640.7	779.3	1144.9	2223.7	8429.2	8689.9	10223.0	9118.8	5036.1
80°	435.0	445.1	495.1	572.5	747.7	899.5	3844.3	4068.4	5748.1	4683.7	2097.4
82.5°	346.3	353.5	388.1	421.7	516.4	545.0	1276.3	1415.9	2121.8	1293.7	555.2
85°	321.9	330.0	342.3	307.6	331.1	319.8	552.1	577.6	640.7	508.3	232.2
87.5°	145.7	172.1	339.2	239.4	176.2	140.6	226.1	236.3	265.9	266.9	102.9
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°	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7
2.5°	3874.9	3871.8	3876.9	3864.7	3880.0	3878.9	3873.9	3875.9	3886.1	3885.1	3886.1
5°	3898.3	3896.3	3902.4	3893.2	3911.5	3917.7	3918.7	3927.8	3939.0	3942.1	3942.1
7.5°	3957.4	3957.4	3960.4	3948.2	3960.4	3959.4	3954.3	3963.5	3974.7	3975.7	3974.7
10°	4059.2	4060.3	4055.2	4023.6	4013.4	3985.9	3960.4	3961.5	3975.7	3986.9	3990.0
12.5°	4187.6	4183.5	4161.1	4103.0	4060.3	4004.2	3977.8	3976.7	3991.0	4000.2	4003.2
15°	4334.3	4323.1	4265.0	4170.3	4094.9	4039.9	3997.1	3986.9	3978.8	3968.6	3969.6
17.5°	4472.8	4447.3	4350.6	4219.2	4139.7	4066.4	3983.9	3917.7	3871.8	3845.3	3837.2
20°	4613.4	4563.5	4423.9	4265.0	4164.2	4030.7	3871.8	3737.4	3653.8	3615.1	3608.0
22.5°	4741.7	4661.3	4492.2	4312.9	4144.8	3910.5	3661.0	3465.4	3349.3	3297.3	3301.4
25°	4867.0	4755.0	4563.5	4346.5	4047.0	3698.6	3367.6	3127.2	2992.7	2934.7	2932.6
27.5°	4977.0	4849.7	4640.9	4319.0	3864.7	3397.1	3020.2	2786.0	2673.9	2624.0	2615.8
30°	5103.3	4968.9	4743.8	4214.1	3597.8	3048.8	2681.0	2516.0	2436.6	2386.7	2377.5
32.5°	5257.2	5130.8	4828.3	4023.6	3256.6	2685.1	2416.2	2301.1	2228.8	2172.7	2162.6
35°	5481.2	5344.8	4849.7	3750.6	2881.7	2397.9	2221.6	2103.5	2005.7	1933.4	1926.2
37.5°	5762.4	5612.7	4800.8	3397.1	2518.1	2211.4	2059.7	1914.0	1786.7	1684.8	1668.5
40°	6167.8	5941.7	4665.3	2989.7	2250.2	2067.8	1901.8	1735.7	1577.9	1458.7	1435.2
42.5°	6654.7	6327.7	4457.5	2584.3	2053.6	1922.2	1744.9	1539.2	1388.4	1303.8	1291.6
45°	7274.0	6729.1	4169.3	2229.8	1860.0	1776.5	1575.8	1386.4	1292.6	1230.5	1220.3
47.5°	7981.0	7179.3	3866.7	1941.5	1696.0	1640.0	1440.3	1318.1	1243.7	1194.9	1185.7
50°	8849.9	7687.6	3545.9	1705.2	1531.0	1476.0	1376.2	1280.4	1221.3	1183.6	1174.5
52.5°	9829.8	8261.1	3314.6	1518.8	1394.5	1354.8	1342.6	1260.0	1212.2	1183.6	1174.5
55°	10885.1	8844.8	3065.1	1361.9	1276.3	1287.5	1320.1	1262.1	1229.5	1194.9	1181.6
57.5°	11941.4	9447.8	2787.0	1229.5	1182.6	1237.6	1304.9	1266.2	1238.7	1205.0	1192.8
60°	12776.7	9829.8	2356.1	1118.5	1108.3	1182.6	1268.2	1235.6	1199.9	1201.0	1198.9
62.5°	13166.8	9809.4	1880.4	1019.6	1033.9	1108.3	1209.1	1187.7	1158.2	1197.9	1201.0
65°	12947.8	9320.5	1463.8	930.0	954.5	1030.9	1148.0	1164.3	1174.5	1250.9	1261.1
67.5°	12029.0	8369.1	1133.7	851.6	882.1	977.9	1154.1	1268.2	1281.4	1361.9	1360.9
69°	11078.6	7476.7	985.0	810.8	846.5	991.1	1233.6	1334.4	1284.5	1370.1	1357.8
70°	10282.1	6770.8	905.6	783.3	830.2	1014.6	1286.5	1333.4	1269.2	1342.6	1322.2
72.5°	7918.8	4871.1	768.0	732.4	775.2	970.8	1301.8	1303.8	1233.6	1247.8	1213.2
75°	5431.3	3078.3	670.3	663.1	691.6	875.0	1252.9	1245.8	1140.9	1120.5	1092.0
77.5°	2994.8	1563.6	569.4	596.9	616.3	775.2	1138.8	1128.6	1042.1	999.3	989.1
80°	1155.1	684.5	480.8	530.7	542.9	671.3	998.3	989.1	916.8	861.8	846.5
82.5°	436.0	358.6	397.3	459.4	455.3	554.1	845.5	840.4	770.1	689.6	665.2
85°	201.7	214.9	314.8	378.9	349.4	410.5	676.4	685.5	600.0	504.2	504.2
87.5°	85.6	120.2	223.1	286.2	235.3	277.1	496.1	473.7	435.0	301.5	283.2
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)