

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: P318311

Luminaire Tested: **GAN-SA7A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318311
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-SA7A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27572 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

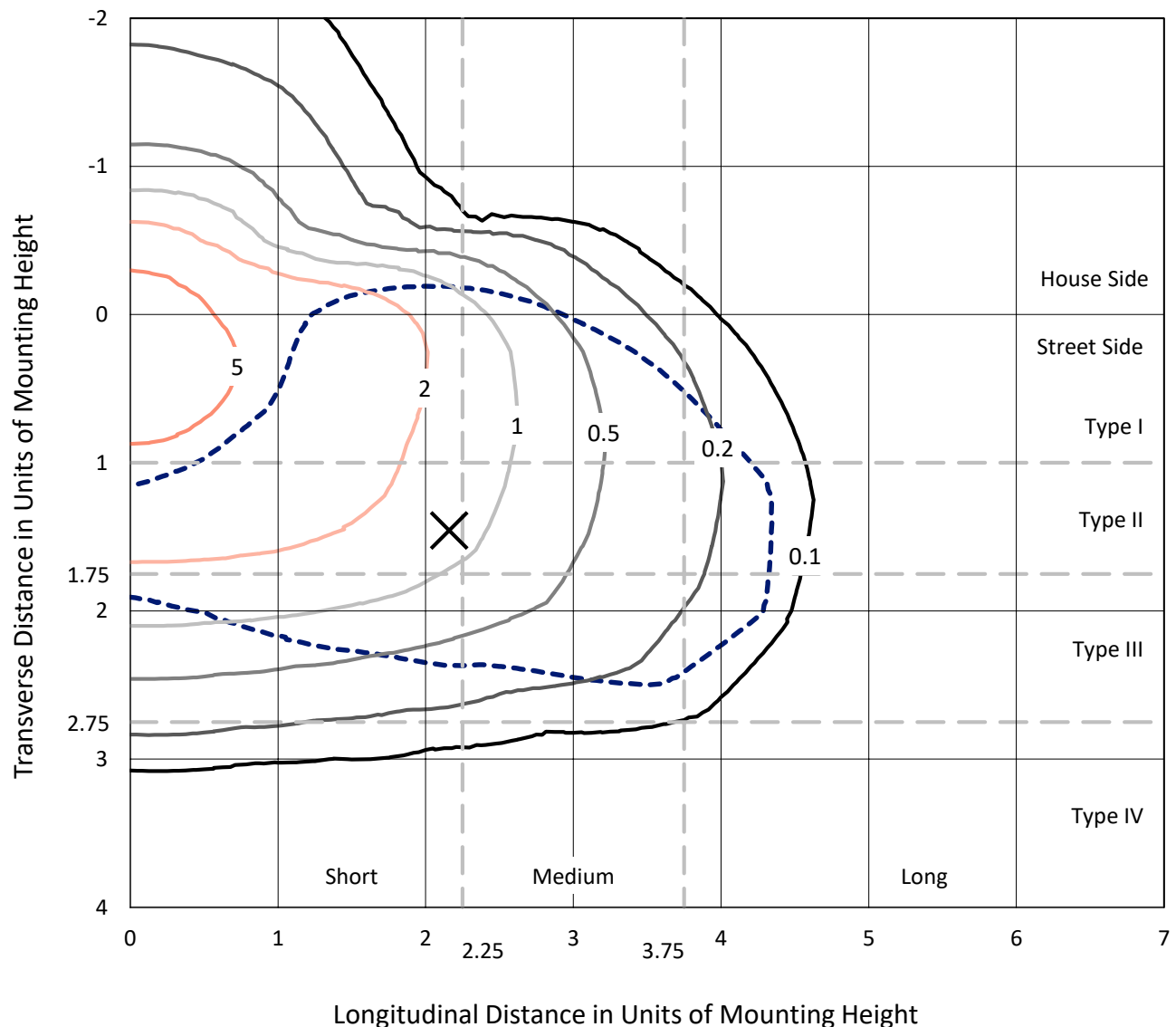
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

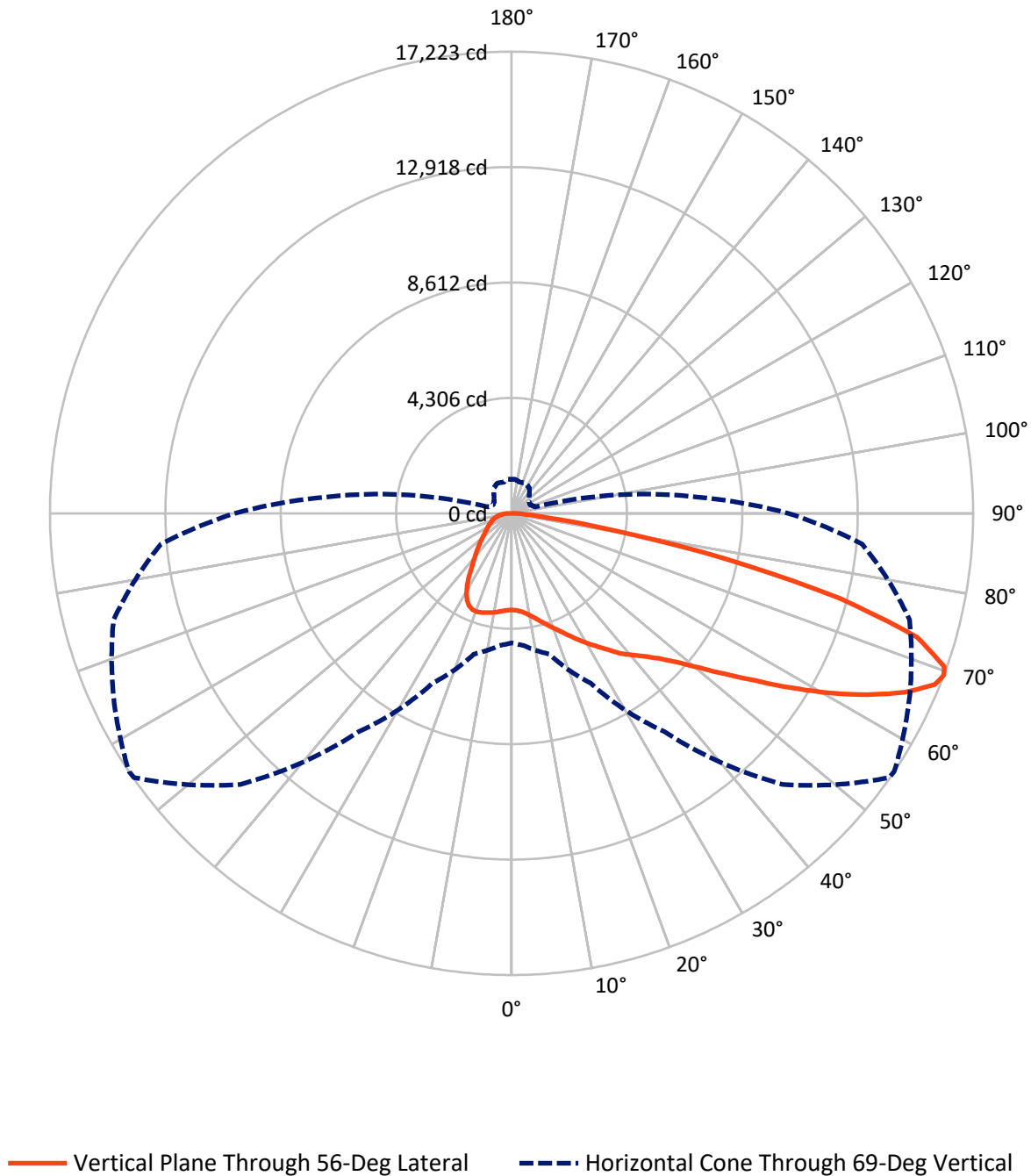
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6140.2	0.0	6140.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	21431.8	0.0	21431.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	27572.0	0.0	27572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	1.3
10°-20°	1138.4	4.1
20°-30°	1987.2	7.2
30°-40°	2854.6	10.4
40°-50°	3950.6	14.3
50°-60°	5788.2	21.0
60°-70°	7056.9	25.6
70°-80°	3901.5	14.2
80°-90°	540.4	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°	27572.0	100.0
0°-180°	27572.0	100.0

Coefficient of Utilization



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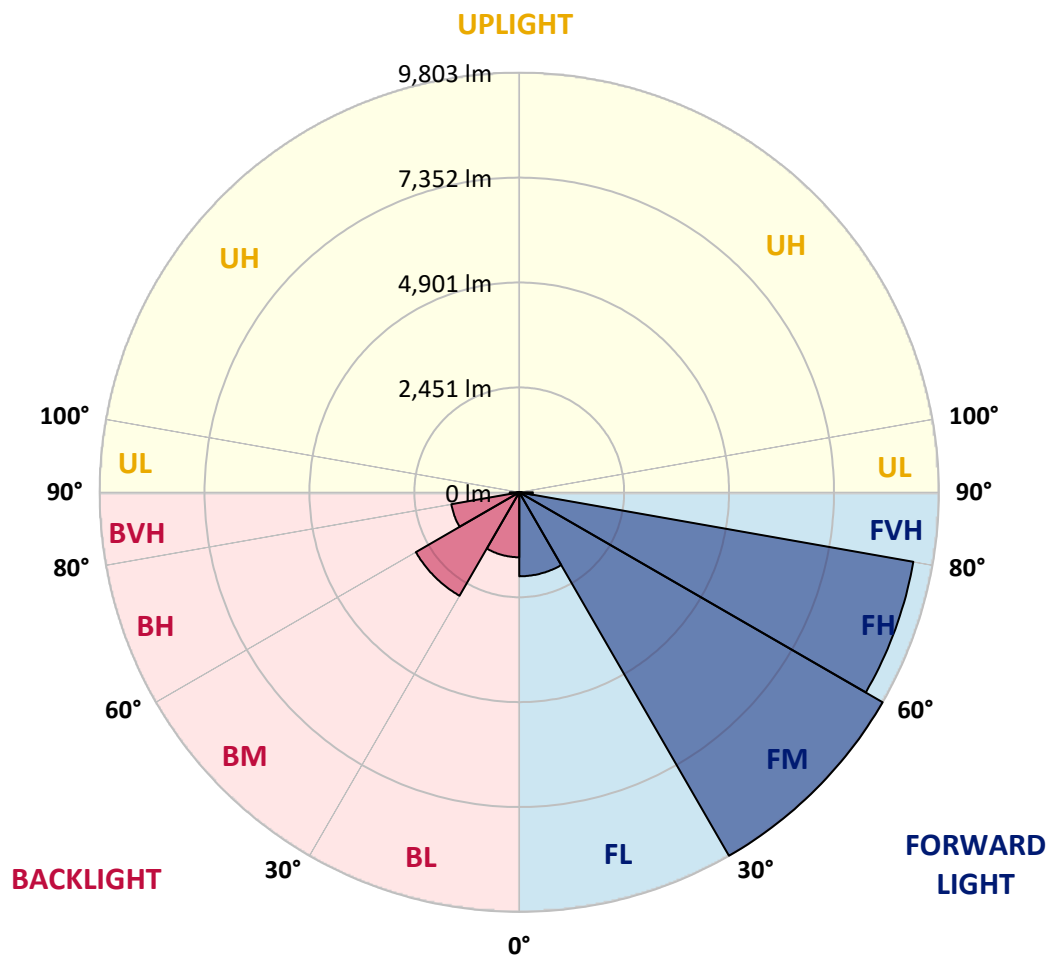
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1962.3	7.1			
FM	(30°-60°)	9802.9	35.6			
FH	(60°-80°)	9348.3	33.9			G4/12000
FVH	(80°-90°)	318.3	1.2			G3/500
BL	(0°-30°)	1517.4	5.5	B3/2500		
BM	(30°-60°)	2790.6	10.1	B3/5000		
BH	(60°-80°)	1610.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	222.1	0.8			G2/225
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°	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6
2.5°	3627.4	3631.2	3628.4	3636.0	3627.4	3633.1	3628.4	3628.4	3625.5	3617.0	3607.5
5°	3684.4	3692.0	3687.3	3694.9	3684.4	3686.3	3677.8	3677.8	3669.2	3651.2	3632.2
7.5°	3773.7	3782.2	3778.4	3786.0	3771.8	3771.8	3760.4	3759.4	3742.4	3712.9	3691.1
10°	3880.1	3891.5	3887.7	3899.1	3887.7	3891.5	3880.1	3880.1	3857.3	3815.5	3787.9
12.5°	4034.9	4049.1	4038.7	4037.7	4033.0	4040.6	4031.1	4029.2	4008.3	3951.3	3913.3
15°	4242.0	4257.2	4235.3	4233.4	4206.8	4204.0	4204.0	4201.1	4187.8	4119.4	4056.7
17.5°	4480.4	4485.1	4466.1	4435.7	4401.5	4379.7	4376.8	4384.4	4384.4	4304.7	4204.9
20°	4714.0	4722.6	4707.4	4673.2	4629.5	4597.2	4574.4	4589.6	4588.7	4493.7	4352.1
22.5°	4968.6	4988.5	4965.7	4922.0	4870.8	4834.7	4794.8	4808.1	4809.0	4692.2	4496.5
25°	5298.2	5280.1	5265.9	5204.1	5131.0	5094.0	5056.9	5070.2	5066.4	4905.9	4645.6
27.5°	5589.8	5593.6	5574.6	5509.0	5424.5	5342.8	5340.9	5349.5	5335.2	5128.2	4786.2
30°	5928.9	5930.8	5904.2	5845.3	5753.2	5647.7	5623.0	5637.3	5606.9	5339.0	4934.4
32.5°	6266.1	6275.6	6246.1	6174.9	6100.8	5972.6	5923.2	5932.7	5856.7	5554.6	5087.3
35°	6561.5	6574.8	6565.3	6517.8	6437.0	6326.9	6268.0	6262.3	6168.2	5818.7	5289.6
37.5°	6862.6	6874.9	6864.5	6824.6	6792.3	6675.4	6644.1	6644.1	6480.7	6088.4	5547.0
40°	7172.2	7191.2	7178.9	7123.8	7096.2	7043.0	6968.0	6949.9	6773.3	6412.3	5966.9
42.5°	7460.0	7484.7	7534.1	7501.8	7445.8	7453.4	7302.3	7292.8	7163.7	6891.1	6494.0
45°	7868.4	7904.5	7988.1	7963.4	7952.0	7910.2	7730.7	7722.2	7672.8	7535.0	7148.5
47.5°	8313.9	8363.3	8514.3	8519.1	8641.6	8562.8	8318.7	8289.2	8300.6	8306.3	7947.3
50°	8724.2	8778.4	9026.3	9143.1	9431.9	9449.0	9058.6	9032.0	9076.6	9207.7	8878.1
52.5°	9051.9	9120.3	9430.0	9790.9	10285.8	10426.3	9969.5	9949.5	9982.8	10208.8	9930.5
55°	9292.2	9366.3	9703.5	10360.8	11151.1	11399.0	11018.1	10999.1	11020.0	11307.8	11075.1
57.5°	9348.3	9366.3	9855.5	10744.5	11881.5	12477.0	12301.3	12263.3	12160.7	12411.5	12338.4
60°	9085.2	9157.4	9730.1	10879.4	12446.6	13539.9	13642.5	13595.0	13307.2	13512.4	13453.5
62.5°	8551.4	8680.5	9261.8	10674.2	12667.9	14408.0	14958.0	14901.0	14405.2	14538.2	14255.1
65°	7679.4	7734.5	8345.3	9966.6	12386.8	14963.7	16131.0	16102.6	15478.5	15270.5	14403.3
67.5°	6119.8	6223.3	6741.9	8487.7	11236.5	14898.2	17038.1	17035.3	16179.5	15542.2	13878.0
69°	4834.7	4942.0	5435.9	6991.7	9942.9	14298.8	17190.1	17223.4	16377.1	15376.9	13127.7
70°	3854.4	3978.9	4318.0	5889.0	8794.5	13508.6	17063.8	17123.6	16339.1	15104.3	12435.2
72.5°	1640.4	1741.0	1982.3	3035.7	5359.9	10087.2	15602.0	15828.1	15458.6	13823.9	10277.2
75°	716.2	747.5	856.8	1237.6	2379.3	5490.0	12222.5	12640.4	13217.9	11684.9	7655.7
77.5°	524.3	537.6	597.4	726.6	1067.6	2073.5	7859.9	8103.0	9532.5	8502.9	4696.0
80°	405.6	415.1	461.6	533.8	697.2	838.7	3584.7	3793.6	5359.9	4367.3	1955.7
82.5°	322.9	329.6	361.9	393.2	481.6	508.2	1190.1	1320.3	1978.5	1206.3	517.7
85°	300.1	307.7	319.1	286.9	308.7	298.2	514.8	538.6	597.4	474.0	216.6
87.5°	135.8	160.5	316.3	223.2	164.3	131.1	210.9	220.4	247.9	248.9	95.9
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°	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6	3604.6
2.5°	3613.2	3610.3	3615.1	3603.7	3617.9	3617.0	3612.2	3614.1	3623.6	3622.7	3623.6
5°	3635.0	3633.1	3638.8	3630.3	3647.4	3653.1	3654.0	3662.6	3673.0	3675.9	3675.9
7.5°	3690.1	3690.1	3693.0	3681.6	3693.0	3692.0	3687.3	3695.8	3706.3	3707.2	3706.3
10°	3785.1	3786.0	3781.3	3751.8	3742.4	3716.7	3693.0	3693.9	3707.2	3717.7	3720.5
12.5°	3904.8	3901.0	3880.1	3825.9	3786.0	3733.8	3709.1	3708.2	3721.5	3730.0	3732.9
15°	4041.5	4031.1	3977.0	3888.6	3818.3	3767.0	3727.2	3717.7	3710.1	3700.6	3701.5
17.5°	4170.7	4147.0	4056.7	3934.2	3860.1	3791.7	3714.8	3653.1	3610.3	3585.6	3578.0
20°	4301.8	4255.3	4125.1	3977.0	3882.9	3758.5	3610.3	3484.9	3407.1	3371.0	3364.3
22.5°	4421.5	4346.4	4188.8	4021.6	3864.9	3646.4	3413.7	3231.3	3123.1	3074.6	3078.4
25°	4538.3	4433.8	4255.3	4052.9	3773.7	3448.9	3140.2	2916.0	2790.6	2736.5	2734.6
27.5°	4640.9	4522.2	4327.4	4027.3	3603.7	3167.7	2816.3	2597.8	2493.3	2446.8	2439.2
30°	4758.7	4633.3	4423.4	3929.5	3354.8	2842.9	2500.0	2346.1	2272.0	2225.5	2216.9
32.5°	4902.1	4784.3	4502.2	3751.8	3036.6	2503.8	2253.0	2145.7	2078.2	2026.0	2016.5
35°	5111.1	4983.8	4522.2	3497.3	2687.1	2235.9	2071.6	1961.4	1870.2	1802.8	1796.1
37.5°	5373.2	5233.6	4476.6	3167.7	2348.0	2062.1	1920.6	1784.7	1666.0	1571.0	1555.8
40°	5751.3	5540.4	4350.2	2787.8	2098.2	1928.2	1773.3	1618.5	1471.3	1360.2	1338.3
42.5°	6205.3	5900.4	4156.5	2409.7	1914.9	1792.3	1627.1	1435.2	1294.6	1215.8	1204.4
45°	6782.8	6274.6	3887.7	2079.2	1734.4	1656.5	1469.4	1292.7	1205.3	1147.4	1137.9
47.5°	7442.0	6694.4	3605.6	1810.4	1581.5	1529.2	1343.1	1229.1	1159.7	1114.2	1105.6
50°	8252.2	7168.4	3306.4	1590.0	1427.6	1376.3	1283.2	1193.9	1138.9	1103.7	1095.2
52.5°	9165.9	7703.2	3090.8	1416.2	1300.3	1263.3	1251.9	1174.9	1130.3	1103.7	1095.2
55°	10149.9	8247.4	2858.1	1269.9	1190.1	1200.6	1231.0	1176.8	1146.5	1114.2	1101.8
57.5°	11134.9	8809.7	2598.7	1146.5	1102.8	1154.0	1216.7	1180.6	1155.0	1123.7	1112.3
60°	11913.8	9165.9	2197.0	1042.9	1033.4	1102.8	1182.5	1152.1	1118.9	1119.9	1118.0
62.5°	12277.6	9146.9	1753.4	950.8	964.1	1033.4	1127.5	1107.5	1080.0	1117.0	1119.9
65°	12073.4	8691.0	1364.9	867.2	890.0	961.2	1070.5	1085.7	1095.2	1166.4	1175.9
67.5°	11216.6	7803.8	1057.2	794.1	822.6	911.8	1076.2	1182.5	1194.9	1269.9	1269.0
69°	10330.4	6971.8	918.5	756.1	789.3	924.2	1150.3	1244.3	1197.7	1277.5	1266.1
70°	9587.6	6313.6	844.4	730.4	774.1	946.0	1199.6	1243.3	1183.5	1251.9	1232.9
72.5°	7384.0	4542.1	716.2	682.9	722.8	905.2	1213.9	1215.8	1150.3	1163.5	1131.3
75°	5064.5	2870.4	625.0	618.3	644.9	815.9	1168.3	1161.6	1063.8	1044.8	1018.2
77.5°	2792.5	1458.0	531.0	556.6	574.7	722.8	1061.9	1052.4	971.7	931.8	922.3
80°	1077.1	638.3	448.3	494.9	506.3	625.9	930.8	922.3	854.9	803.6	789.3
82.5°	406.5	334.3	370.4	428.4	424.6	516.7	788.4	783.6	718.1	643.0	620.2
85°	188.1	200.4	293.5	353.3	325.8	382.8	630.7	639.2	559.5	470.2	470.2
87.5°	79.8	112.1	208.0	266.9	219.4	258.4	462.6	441.7	405.6	281.2	264.1
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)