

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: P318568

Luminaire Tested: **GAN-SA4C-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318568
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-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22678 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

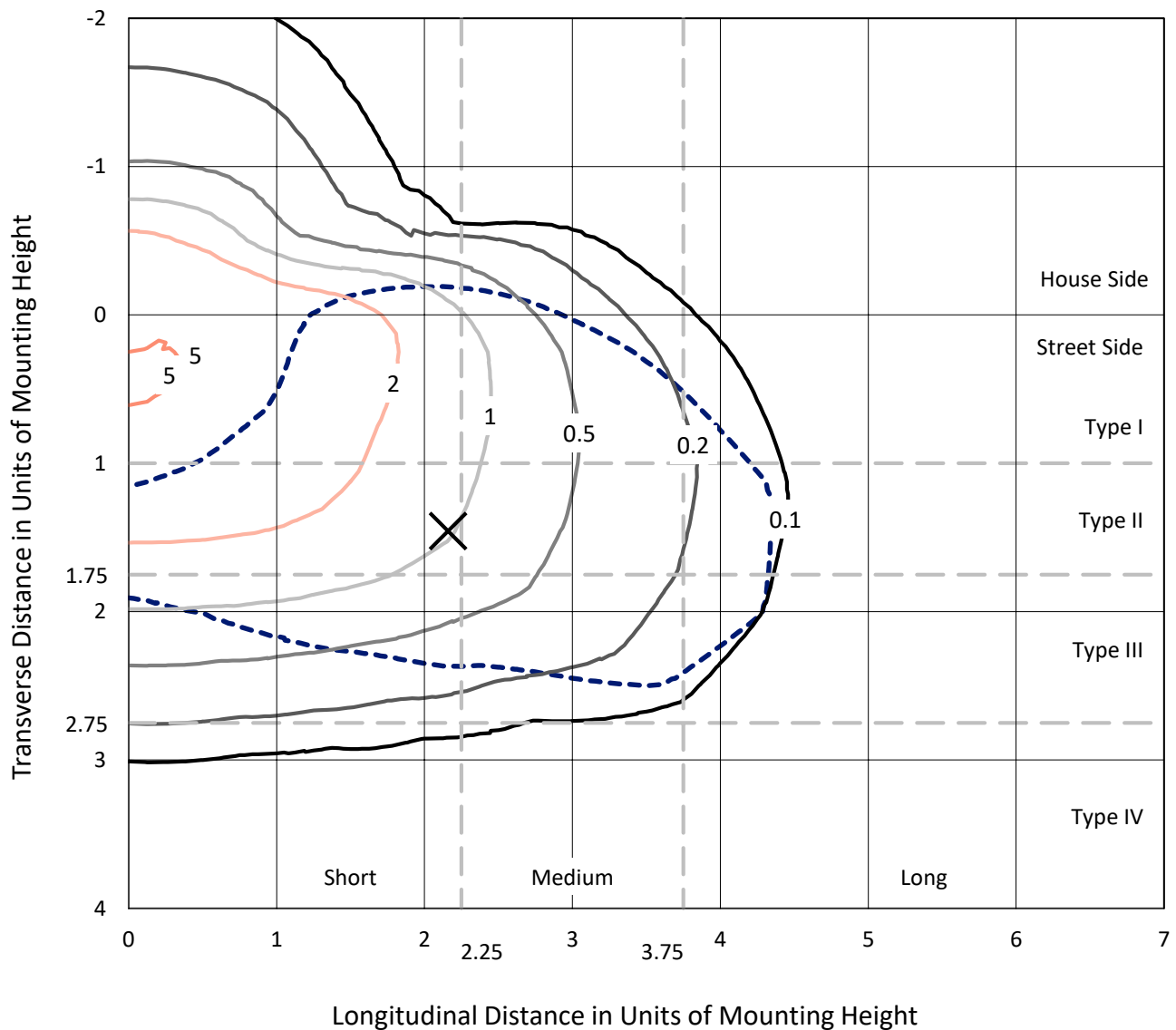
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

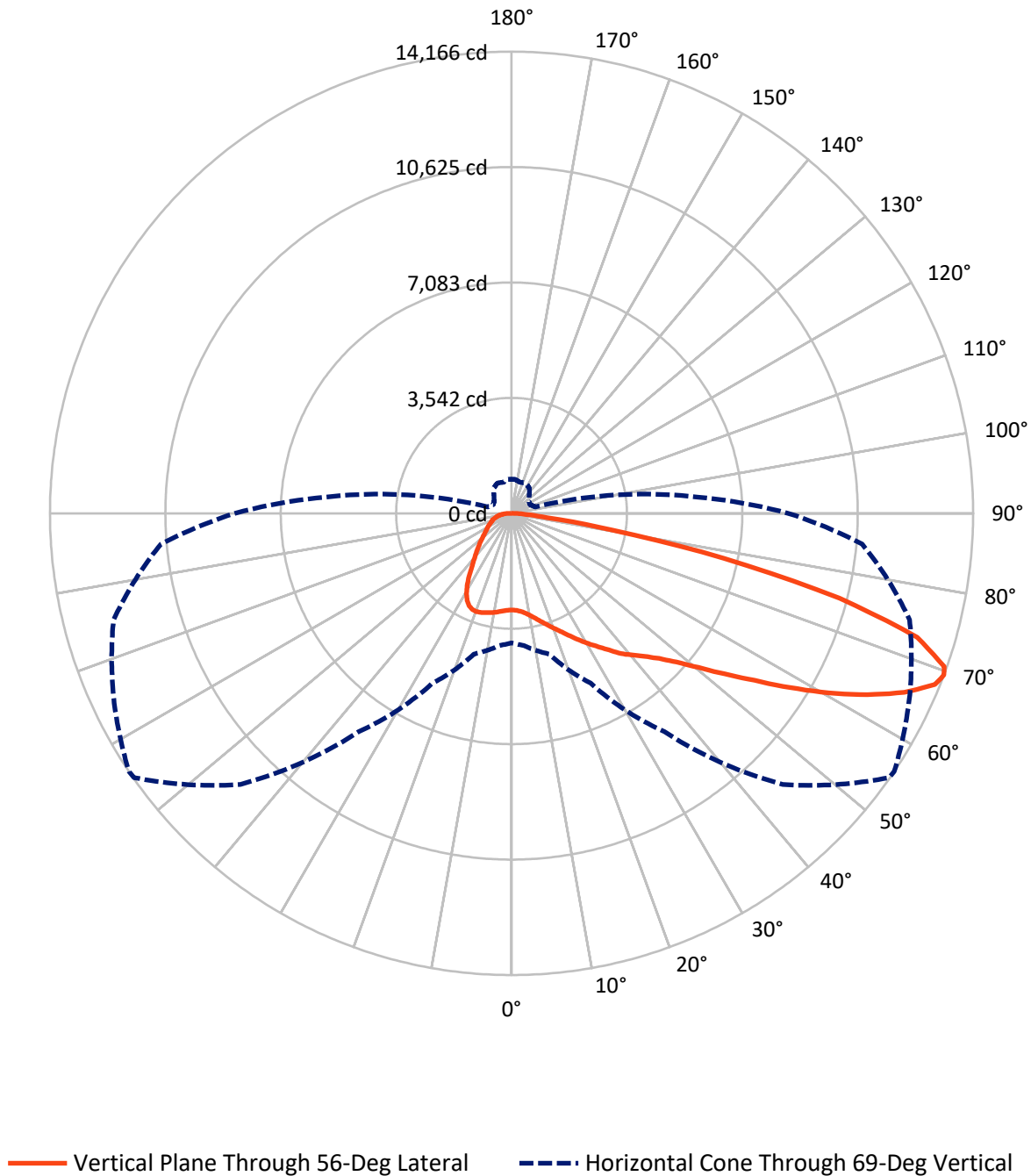
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5050.4	0.0	5050.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17627.6	0.0	17627.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	22678.0	0.0	22678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.3
10°-20°	936.4	4.1
20°-30°	1634.5	7.2
30°-40°	2347.9	10.4
40°-50°	3249.4	14.3
50°-60°	4760.8	21.0
60°-70°	5804.3	25.6
70°-80°	3209.0	14.2
80°-90°	444.4	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°	22678.0	100.0
0°-180°	22678.0	100.0

Coefficient of Utilization



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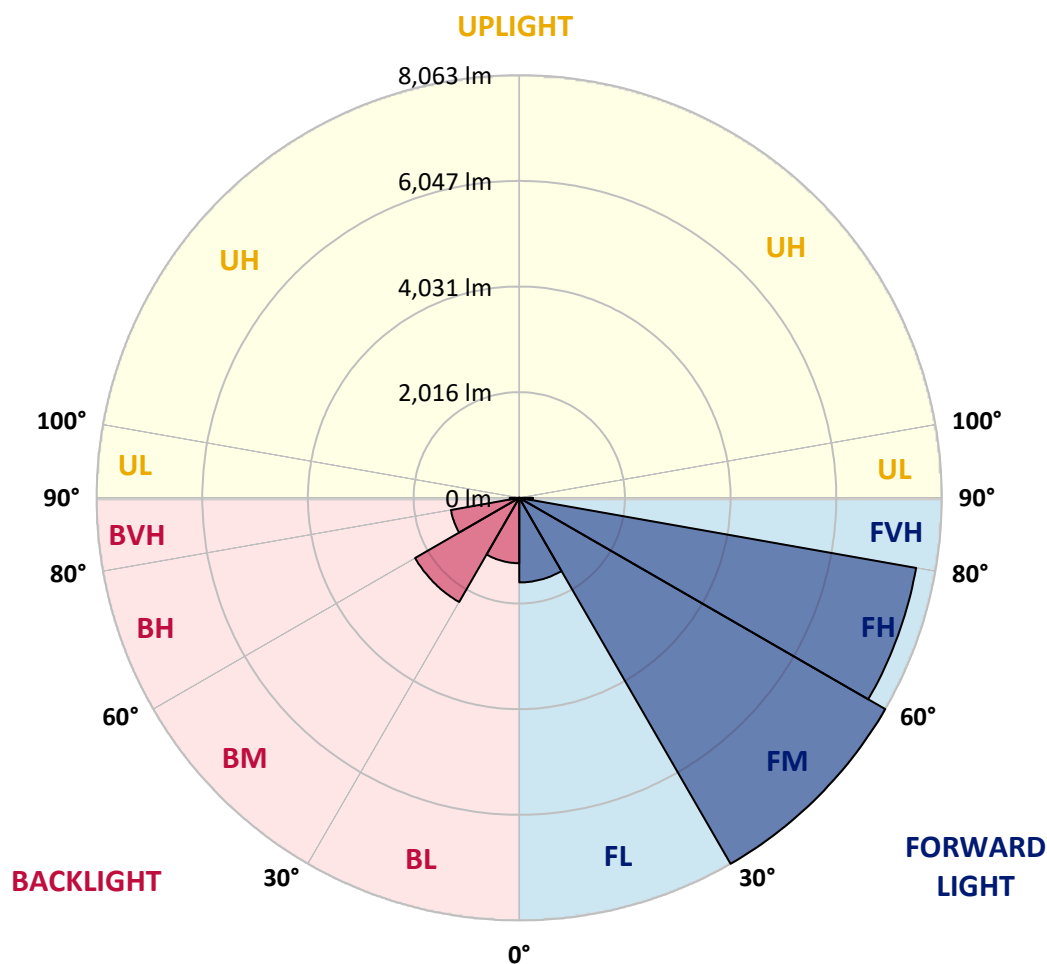
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1614.0	7.1			
FM	(30°-60°)	8062.9	35.6			
FH	(60°-80°)	7689.0	33.9			G4/12000
FVH	(80°-90°)	261.8	1.2			G3/500
BL	(0°-30°)	1248.1	5.5	B3/2500		
BM	(30°-60°)	2295.3	10.1	B2/2500		
BH	(60°-80°)	1324.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	182.7	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°	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8
2.5°	2983.6	2986.7	2984.3	2990.6	2983.6	2988.2	2984.3	2984.3	2982.0	2975.0	2967.2
5°	3030.4	3036.7	3032.8	3039.0	3030.4	3032.0	3025.0	3025.0	3017.9	3003.1	2987.5
7.5°	3103.9	3110.9	3107.8	3114.0	3102.3	3102.3	3092.9	3092.1	3078.1	3053.9	3035.9
10°	3191.4	3200.7	3197.6	3207.0	3197.6	3200.7	3191.4	3191.4	3172.6	3138.2	3115.6
12.5°	3318.7	3330.4	3321.8	3321.1	3317.1	3323.4	3315.6	3314.0	3296.8	3250.0	3218.7
15°	3489.0	3501.5	3483.6	3482.0	3460.1	3457.8	3457.8	3455.4	3444.5	3388.2	3336.7
17.5°	3685.1	3689.0	3673.4	3648.4	3620.3	3602.3	3600.0	3606.2	3606.2	3540.6	3458.6
20°	3877.3	3884.3	3871.8	3843.7	3807.8	3781.2	3762.5	3775.0	3774.2	3696.0	3579.6
22.5°	4086.7	4103.1	4084.3	4048.4	4006.2	3976.5	3943.7	3954.6	3955.4	3859.3	3698.4
25°	4357.8	4342.9	4331.2	4280.4	4220.3	4189.8	4159.3	4170.3	4167.1	4035.1	3821.0
27.5°	4597.6	4600.7	4585.1	4531.2	4461.7	4394.5	4392.9	4399.9	4388.2	4217.9	3936.7
30°	4876.5	4878.1	4856.2	4807.8	4732.0	4645.3	4624.9	4636.7	4611.7	4391.4	4058.5
32.5°	5153.8	5161.7	5137.4	5078.8	5017.9	4912.4	4871.8	4879.6	4817.1	4568.7	4184.3
35°	5396.8	5407.7	5399.9	5360.9	5294.5	5203.8	5155.4	5150.7	5073.4	4785.9	4350.7
37.5°	5644.5	5654.6	5646.0	5613.2	5586.6	5490.6	5464.8	5464.8	5330.4	5007.8	4562.4
40°	5899.1	5914.8	5904.6	5859.3	5836.6	5792.9	5731.2	5716.3	5571.0	5274.2	4907.8
42.5°	6135.9	6156.2	6196.8	6170.2	6124.1	6130.4	6006.2	5998.4	5892.1	5667.9	5341.3
45°	6471.8	6501.5	6570.2	6549.9	6540.5	6506.2	6358.5	6351.5	6310.9	6197.6	5879.6
47.5°	6838.2	6878.8	7003.0	7006.9	7107.7	7042.9	6842.1	6817.9	6827.3	6831.9	6536.6
50°	7175.7	7220.2	7424.1	7520.2	7757.7	7771.8	7450.7	7428.8	7465.5	7573.3	7302.3
52.5°	7445.2	7501.5	7756.2	8053.0	8460.1	8575.7	8199.9	8183.5	8210.8	8396.8	8167.9
55°	7642.9	7703.8	7981.2	8521.8	9171.8	9375.7	9062.4	9046.8	9064.0	9300.7	9109.3
57.5°	7689.0	7703.8	8106.1	8837.4	9772.5	10262.4	10117.8	10086.6	10002.2	10208.5	10148.3
60°	7472.6	7531.9	8003.0	8948.3	10237.4	11136.6	11221.0	11181.9	10945.2	11113.9	11065.5
62.5°	7033.5	7139.8	7617.9	8779.6	10419.4	11850.6	12303.0	12256.1	11848.3	11957.7	11724.9
65°	6316.3	6361.6	6864.0	8197.6	10188.2	12307.7	13267.8	13244.4	12731.1	12560.0	11846.7
67.5°	5033.5	5118.7	5545.2	6981.2	9242.1	12253.8	14013.9	14011.5	13307.6	12783.4	11414.7
69°	3976.5	4064.8	4471.0	5750.7	8178.0	11760.8	14138.9	14166.2	13470.1	12647.5	10797.5
70°	3170.3	3272.6	3551.5	4843.7	7233.5	11110.8	14035.0	14084.2	13438.9	12423.3	10228.0
72.5°	1349.2	1432.0	1630.4	2496.8	4408.5	8296.8	12832.7	13018.6	12714.7	11370.2	8453.0
75°	589.1	614.8	704.7	1018.0	1957.0	4515.6	10053.0	10396.7	10871.7	9610.8	6296.8
77.5°	431.2	442.2	491.4	597.6	878.1	1705.4	6464.8	6664.8	7840.5	6993.7	3862.5
80°	333.6	341.4	379.7	439.1	573.4	689.8	2948.4	3120.3	4408.5	3592.1	1608.6
82.5°	265.6	271.1	297.7	323.4	396.1	418.0	978.9	1085.9	1627.3	992.2	425.8
85°	246.9	253.1	262.5	235.9	253.9	245.3	423.4	443.0	491.4	389.8	178.1
87.5°	111.7	132.0	260.2	183.6	135.2	107.8	173.4	181.2	203.9	204.7	78.9
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°	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8
2.5°	2971.8	2969.5	2973.4	2964.0	2975.7	2975.0	2971.1	2972.6	2980.4	2979.7	2980.4
5°	2989.8	2988.2	2992.9	2985.9	3000.0	3004.7	3005.4	3012.5	3021.1	3023.4	3023.4
7.5°	3035.1	3035.1	3037.5	3028.1	3037.5	3036.7	3032.8	3039.8	3048.4	3049.2	3048.4
10°	3113.2	3114.0	3110.1	3085.9	3078.1	3057.0	3037.5	3038.2	3049.2	3057.8	3060.1
12.5°	3211.7	3208.6	3191.4	3146.8	3114.0	3071.1	3050.7	3050.0	3060.9	3067.9	3070.3
15°	3324.2	3315.6	3271.1	3198.4	3140.6	3098.4	3065.6	3057.8	3051.5	3043.7	3044.5
17.5°	3430.4	3410.9	3336.7	3235.9	3175.0	3118.7	3055.4	3004.7	2969.5	2949.2	2942.9
20°	3538.2	3500.0	3392.9	3271.1	3193.7	3091.4	2969.5	2866.4	2802.3	2772.6	2767.2
22.5°	3636.7	3575.0	3445.3	3307.8	3178.9	2999.2	2807.8	2657.8	2568.7	2528.9	2532.0
25°	3732.8	3646.8	3500.0	3333.6	3103.9	2836.7	2582.8	2398.4	2295.3	2250.8	2249.2
27.5°	3817.1	3719.5	3559.3	3312.5	2964.0	2605.4	2316.4	2136.7	2050.8	2012.5	2006.2
30°	3914.0	3810.9	3638.2	3232.0	2759.3	2338.3	2056.2	1929.7	1868.7	1830.4	1823.4
32.5°	4032.0	3935.1	3703.1	3085.9	2497.6	2059.3	1853.1	1764.8	1709.4	1666.4	1658.6
35°	4203.9	4099.2	3719.5	2876.5	2210.1	1839.0	1703.9	1613.3	1538.3	1482.8	1477.3
37.5°	4419.5	4304.6	3682.0	2605.4	1931.2	1696.1	1579.7	1468.0	1370.3	1292.2	1279.7
40°	4730.4	4557.0	3578.1	2292.9	1725.8	1585.9	1458.6	1331.2	1210.1	1118.7	1100.8
42.5°	5103.8	4853.1	3418.7	1982.0	1575.0	1474.2	1338.3	1180.5	1064.8	1000.0	990.6
45°	5578.8	5160.9	3197.6	1710.1	1426.5	1362.5	1208.6	1063.3	991.4	943.7	935.9
47.5°	6121.0	5506.2	2965.6	1489.0	1300.8	1257.8	1104.7	1010.9	953.9	916.4	909.4
50°	6787.4	5896.0	2719.5	1307.8	1174.2	1132.0	1055.5	982.0	936.7	907.8	900.8
52.5°	7539.0	6335.9	2542.2	1164.8	1069.5	1039.0	1029.7	966.4	929.7	907.8	900.8
55°	8348.3	6783.5	2350.8	1044.5	978.9	987.5	1012.5	968.0	943.0	916.4	906.2
57.5°	9158.5	7246.0	2137.5	943.0	907.0	949.2	1000.8	971.1	950.0	924.2	914.8
60°	9799.1	7539.0	1807.0	857.8	850.0	907.0	972.6	947.6	920.3	921.1	919.5
62.5°	10098.3	7523.3	1442.2	782.0	793.0	850.0	927.3	910.9	888.3	918.7	921.1
65°	9930.3	7148.3	1122.6	713.3	732.0	790.6	880.5	893.0	900.8	959.4	967.2
67.5°	9225.7	6418.7	869.5	653.1	676.6	750.0	885.1	972.6	982.8	1044.5	1043.7
69°	8496.8	5734.3	755.5	621.9	649.2	760.1	946.1	1023.4	985.1	1050.8	1041.4
70°	7885.8	5192.9	694.5	600.8	636.7	778.1	986.7	1022.6	973.4	1029.7	1014.0
72.5°	6073.4	3735.9	589.1	561.7	594.5	744.5	998.4	1000.0	946.1	957.0	930.5
75°	4165.6	2360.9	514.1	508.6	530.5	671.1	960.9	955.5	875.0	859.4	837.5
77.5°	2296.8	1199.2	436.7	457.8	472.7	594.5	873.4	865.6	799.2	766.4	758.6
80°	885.9	525.0	368.7	407.0	416.4	514.8	765.6	758.6	703.1	660.9	649.2
82.5°	334.4	275.0	304.7	352.3	349.2	425.0	648.4	644.5	590.6	528.9	510.1
85°	154.7	164.8	241.4	290.6	268.0	314.8	518.7	525.8	460.2	386.7	386.7
87.5°	65.6	92.2	171.1	219.5	180.5	212.5	380.5	363.3	333.6	231.2	217.2
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)