

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: P317678

Luminaire Tested: **GAN-SA4B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19711 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 171
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

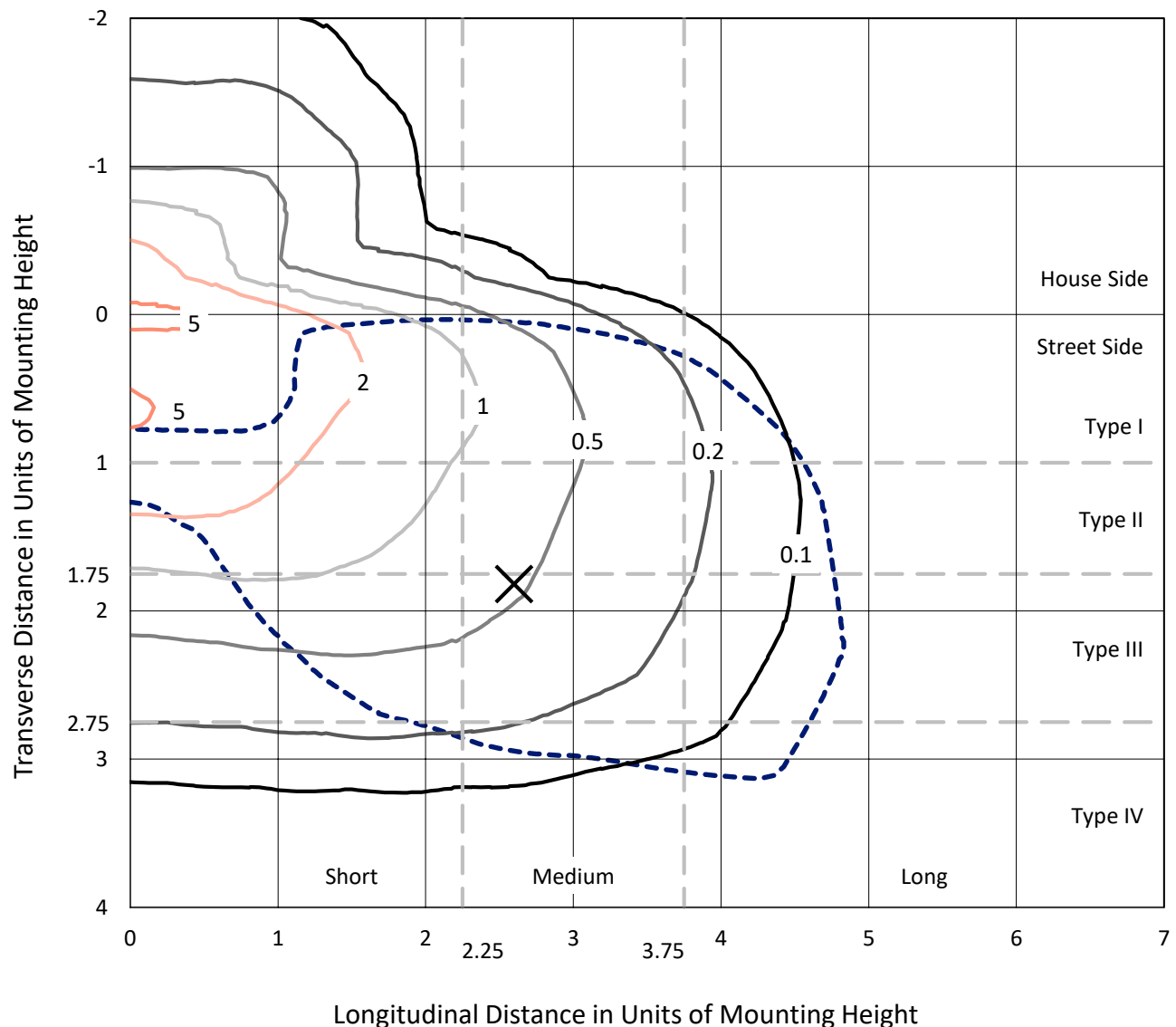


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Iso-Footcandle Lines of Horizontal Illumination

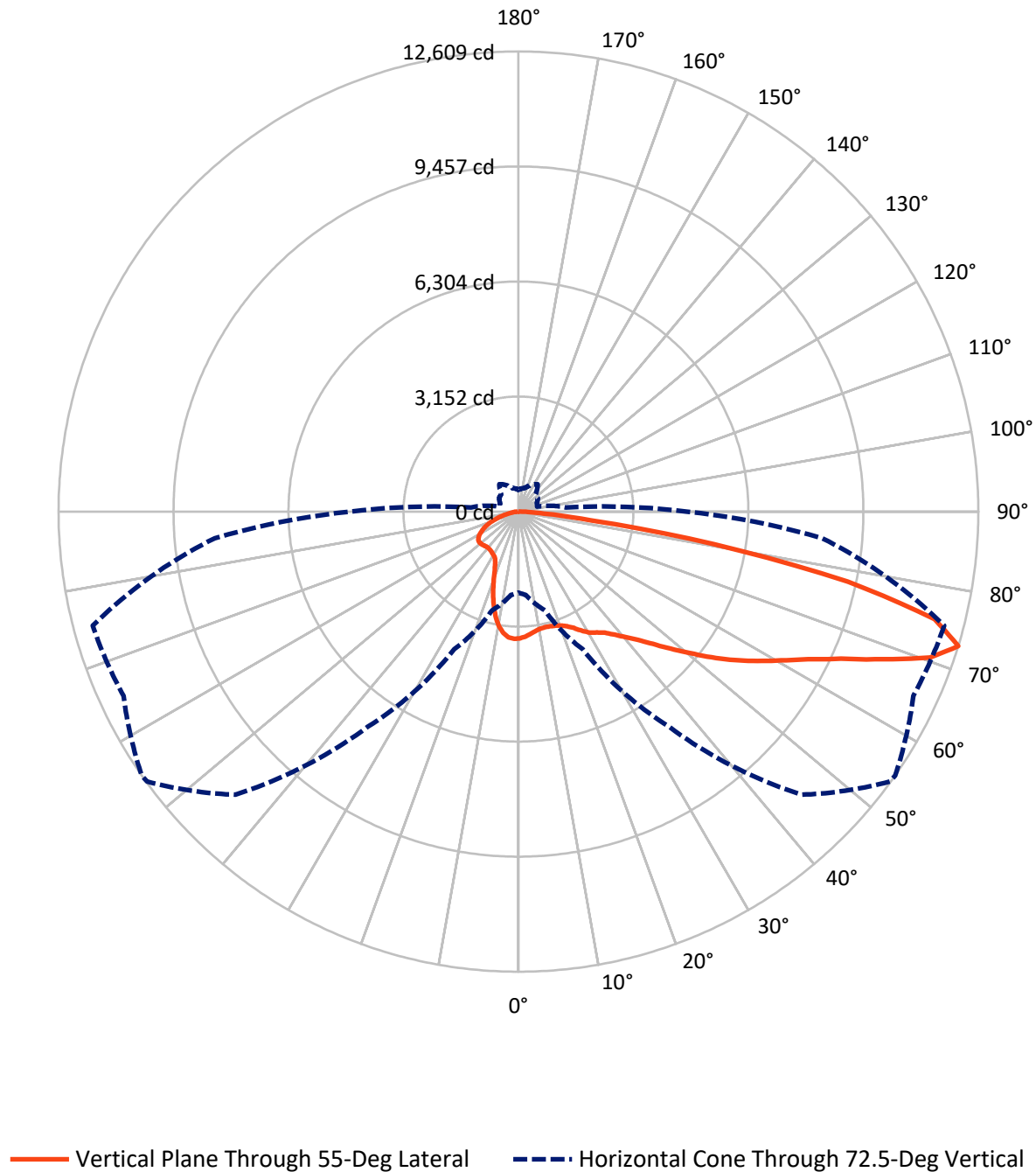
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3663.6	0.0	3663.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16047.4	0.0	16047.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	19711.0	0.0	19711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.6
10°-20°	837.6	4.2
20°-30°	1380.9	7.0
30°-40°	2042.7	10.4
40°-50°	2851.2	14.5
50°-60°	3712.4	18.8
60°-70°	4562.4	23.1
70°-80°	3576.4	18.1
80°-90°	432.8	2.2
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°	19711.0	100.0
0°-180°	19711.0	100.0

Coefficient of Utilization



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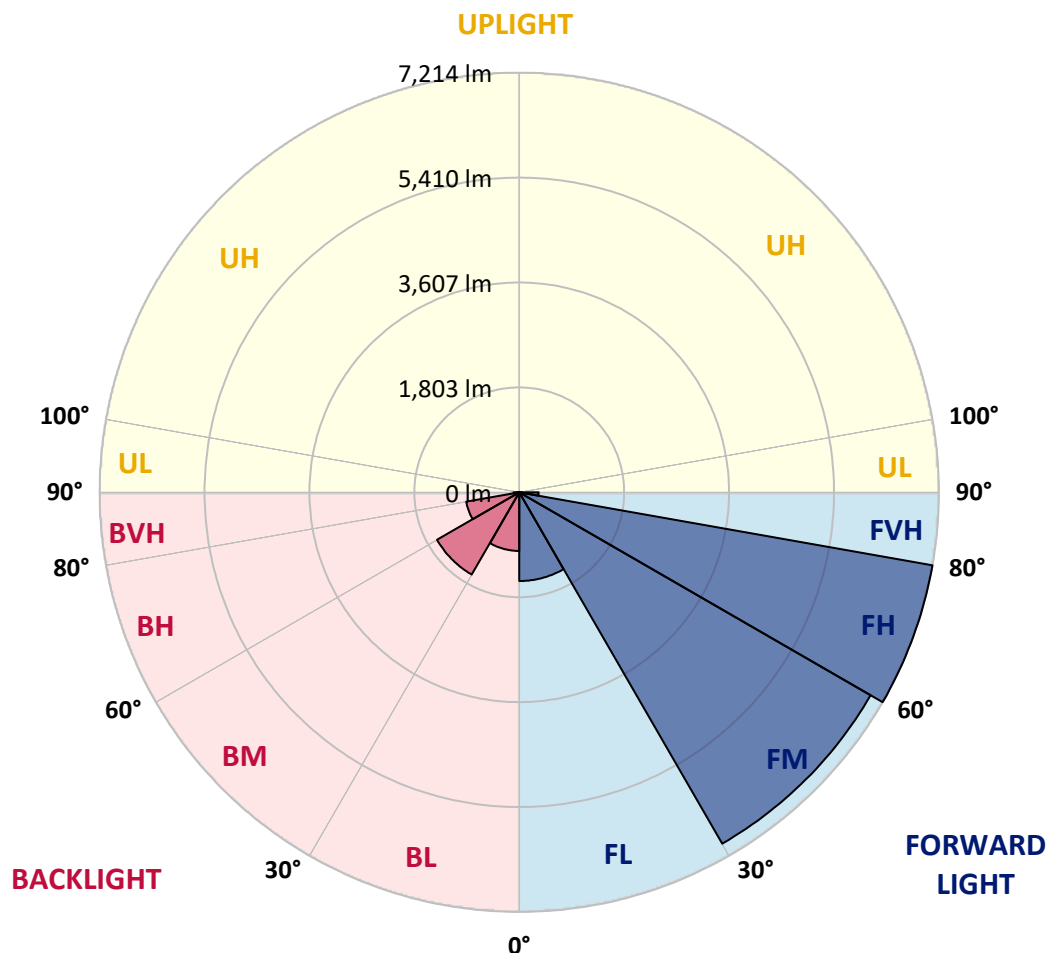
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.1	7.7			
FM	(30°-60°)	6974.1	35.4			
FH	(60°-80°)	7213.6	36.6			G3/7500
FVH	(80°-90°)	334.6	1.7			G3/500
BL	(0°-30°)	1008.0	5.1	B3/2500		
BM	(30°-60°)	1632.2	8.3	B2/2500		
BH	(60°-80°)	925.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	98.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6
2.5°	3363.4	3355.4	3365.4	3379.4	3394.7	3415.3	3427.3	3432.7	3453.3	3461.3	3478.6
5°	3207.6	3203.6	3220.3	3244.2	3278.2	3326.1	3364.7	3372.1	3426.7	3465.3	3500.6
7.5°	3094.5	3094.5	3113.8	3142.4	3180.3	3244.9	3299.5	3309.5	3402.0	3485.3	3550.5
10°	3004.6	3007.9	3030.5	3064.5	3109.1	3177.7	3250.2	3261.6	3395.4	3531.9	3635.7
12.5°	2944.7	2952.6	2973.3	3003.9	3059.2	3142.4	3234.3	3249.6	3409.4	3598.4	3738.2
15°	2982.6	2995.9	2997.9	3010.6	3041.2	3131.7	3243.6	3259.6	3439.3	3666.3	3854.7
17.5°	3149.0	3153.7	3133.1	3106.4	3091.8	3149.7	3271.5	3288.2	3475.3	3733.6	3966.6
20°	3402.0	3399.4	3354.8	3282.9	3208.3	3217.6	3317.5	3334.8	3523.9	3792.8	4078.4
22.5°	3721.6	3712.3	3643.7	3511.2	3384.1	3330.8	3398.0	3412.7	3597.1	3877.4	4198.3
25°	4109.1	4088.4	3997.9	3820.1	3633.0	3495.9	3519.2	3533.2	3703.6	3971.9	4308.1
27.5°	4517.8	4497.2	4382.0	4167.0	3918.0	3704.3	3686.3	3698.3	3824.8	4041.8	4389.4
30°	4945.3	4923.3	4818.1	4577.1	4220.2	3920.0	3842.1	3846.8	3910.0	4079.8	4455.9
32.5°	5374.7	5354.0	5236.2	4956.6	4548.5	4151.7	3954.6	3948.6	3961.3	4119.1	4531.2
35°	5810.1	5818.1	5680.3	5370.7	4912.0	4409.3	4087.8	4075.1	4047.2	4199.6	4637.7
37.5°	6276.1	6270.8	6092.4	5768.8	5292.1	4688.9	4278.8	4276.8	4180.3	4352.1	4804.8
40°	6587.7	6591.0	6482.5	6176.3	5676.3	4998.5	4523.8	4519.2	4392.7	4580.4	5023.8
42.5°	6709.5	6731.5	6759.5	6565.1	6078.4	5357.4	4816.1	4809.4	4688.9	4908.0	5281.5
45°	6718.2	6762.1	6935.2	6910.6	6485.8	5768.1	5189.6	5171.0	5084.4	5343.4	5589.1
47.5°	6643.6	6688.9	6976.5	7116.3	6850.0	6201.6	5626.3	5611.7	5537.1	5888.0	5921.9
50°	6480.5	6523.8	6891.3	7216.8	7149.6	6618.3	6129.6	6091.0	6051.1	6517.1	6302.7
52.5°	6174.9	6258.1	6777.4	7240.8	7328.7	6988.5	6658.9	6633.6	6655.6	7180.9	6684.2
55°	5451.2	5544.4	6483.8	7220.8	7461.2	7299.4	7188.2	7186.9	7300.7	7877.3	7093.7
57.5°	5045.8	5111.7	5886.0	7186.9	7618.3	7608.3	7712.2	7724.8	7946.5	8635.6	7522.4
60°	4816.8	4886.0	5583.1	7061.0	7862.0	8007.8	8246.8	8272.1	8602.9	9475.1	8038.4
62.5°	4608.4	4684.3	5395.3	6804.7	8148.9	8579.0	8887.2	8909.9	9298.0	10337.9	8537.0
65°	4252.2	4338.1	5120.4	6636.3	8409.9	9324.0	9701.4	9716.8	10096.2	11242.0	8918.5
67.5°	3748.9	3827.5	4601.7	6264.1	8602.9	10228.7	10784.0	10792.6	10887.8	11880.5	9113.6
70°	3161.0	3191.0	3862.7	5495.8	8374.6	11074.9	11970.4	11972.4	11609.5	12289.3	9081.6
72.5°	2221.0	2291.5	2804.2	4160.3	7196.9	10971.7	12586.2	12608.8	11945.1	12082.9	8355.9
75°	1362.1	1436.7	1758.9	2521.2	4565.8	8628.9	11628.8	11785.9	11315.9	10773.3	6826.0
77.5°	910.8	938.7	1147.8	1470.0	2068.5	4964.6	8940.5	9236.1	9400.5	7856.6	4365.4
80°	508.0	561.2	761.0	913.4	920.1	1972.6	5360.7	5429.9	5230.2	3128.4	1346.8
82.5°	269.0	298.3	508.0	536.6	502.0	660.4	1997.9	1999.9	1671.1	838.9	400.1
85°	208.4	233.0	348.2	327.6	256.3	292.9	659.1	695.1	568.6	343.5	130.5
87.5°	103.9	129.2	236.3	207.7	100.5	83.9	235.7	251.7	224.4	134.5	47.3
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°	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6	3476.6
2.5°	3485.3	3491.2	3498.6	3490.6	3487.9	3477.3	3459.3	3455.3	3446.0	3446.6	3452.0
5°	3515.9	3525.9	3521.9	3491.2	3454.6	3403.4	3350.1	3304.8	3274.9	3272.9	3270.9
7.5°	3574.5	3581.1	3549.8	3462.6	3360.1	3241.6	3129.7	3031.9	2972.6	2958.0	2954.6
10°	3666.3	3665.0	3579.1	3403.4	3199.0	2987.3	2807.5	2671.7	2592.5	2569.2	2563.2
12.5°	3768.9	3753.6	3589.1	3295.5	2971.3	2677.7	2450.0	2298.9	2216.3	2189.7	2183.0
15°	3874.7	3836.8	3564.5	3134.4	2691.7	2344.1	2105.1	1965.3	1920.7	1906.1	1903.4
17.5°	3973.3	3900.0	3493.9	2916.0	2372.8	2011.9	1825.5	1769.6	1780.2	1799.5	1800.2
20°	4069.8	3942.6	3380.7	2640.4	2036.6	1738.3	1675.1	1716.3	1766.9	1806.2	1811.5
22.5°	4165.0	3972.6	3234.9	2322.2	1735.6	1584.5	1629.1	1704.3	1762.3	1804.9	1812.2
25°	4244.9	3979.9	3033.9	1982.6	1526.6	1526.6	1607.1	1678.4	1735.6	1777.6	1784.9
27.5°	4274.2	3930.6	2750.3	1668.4	1421.4	1500.0	1576.5	1635.8	1684.4	1729.0	1737.0
30°	4285.5	3839.4	2422.7	1416.1	1378.1	1471.3	1535.2	1585.8	1631.8	1673.7	1681.0
32.5°	4287.5	3729.6	2075.2	1272.9	1348.2	1441.4	1484.0	1528.6	1577.9	1594.5	1597.2
35°	4300.1	3599.8	1709.0	1199.7	1320.2	1413.4	1447.4	1479.3	1399.4	1405.4	1410.7
37.5°	4336.8	3471.3	1402.8	1158.4	1302.2	1398.8	1439.4	1323.5	1260.9	1246.3	1244.3
40°	4405.3	3334.1	1175.7	1125.1	1295.6	1406.1	1388.1	1235.6	1127.8	1047.2	1035.3
42.5°	4500.5	3186.3	1030.6	1103.2	1300.2	1441.4	1316.9	1151.1	972.0	920.1	913.4
45°	4607.7	3031.2	952.0	1087.9	1316.2	1468.7	1302.2	1038.6	899.4	860.2	856.8
47.5°	4711.6	2841.5	911.4	1081.2	1338.2	1446.7	1240.3	1004.0	864.8	844.2	846.2
50°	4830.8	2670.4	886.8	1073.9	1357.5	1432.7	1170.4	986.0	851.5	876.8	903.4
52.5°	4931.3	2493.3	864.8	1059.2	1364.8	1408.1	1152.4	989.3	851.5	900.1	925.4
55°	5050.5	2359.5	839.5	1028.6	1350.8	1338.2	1139.8	1009.3	861.5	830.9	833.5
57.5°	5204.2	2315.5	811.6	980.7	1304.2	1236.3	1133.8	1028.6	855.5	836.2	842.9
60°	5417.3	2362.1	800.2	918.1	1231.7	1156.4	1134.5	1018.6	813.6	780.3	780.9
62.5°	5620.3	2414.0	799.6	878.8	1142.4	1085.2	1119.1	986.0	792.3	772.9	780.3
65°	5686.9	2361.4	767.6	834.9	1041.9	1000.0	1091.2	951.4	776.3	747.0	745.7
67.5°	5597.7	2198.3	703.0	763.6	926.7	900.8	1054.6	910.1	751.0	727.0	723.0
70°	5332.7	1834.2	623.2	669.8	795.6	788.9	996.6	862.2	717.0	696.4	679.1
72.5°	4619.7	1306.9	525.3	557.2	647.8	669.1	916.8	799.6	669.1	624.5	597.9
75°	3794.2	967.3	431.4	438.1	492.0	549.9	806.9	726.3	612.5	536.6	516.0
77.5°	2323.5	591.9	343.5	346.2	352.9	438.7	664.4	644.5	540.6	447.4	432.7
80°	752.3	322.9	248.3	261.0	241.0	321.6	514.0	548.6	464.0	374.2	358.2
82.5°	286.3	188.4	167.8	176.4	167.1	215.7	374.8	439.4	380.1	307.6	250.3
85°	138.5	106.5	99.2	111.2	103.2	110.5	239.7	323.6	288.3	200.4	186.4
87.5°	49.3	47.3	37.9	51.3	43.9	39.3	73.2	163.1	190.4	137.8	123.2
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)