

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: P317697

Luminaire Tested: **GAN-SA3D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317697
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-SA3D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20254 lumens
Efficiency: N/A
Efficacy: 106.0 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): 191
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

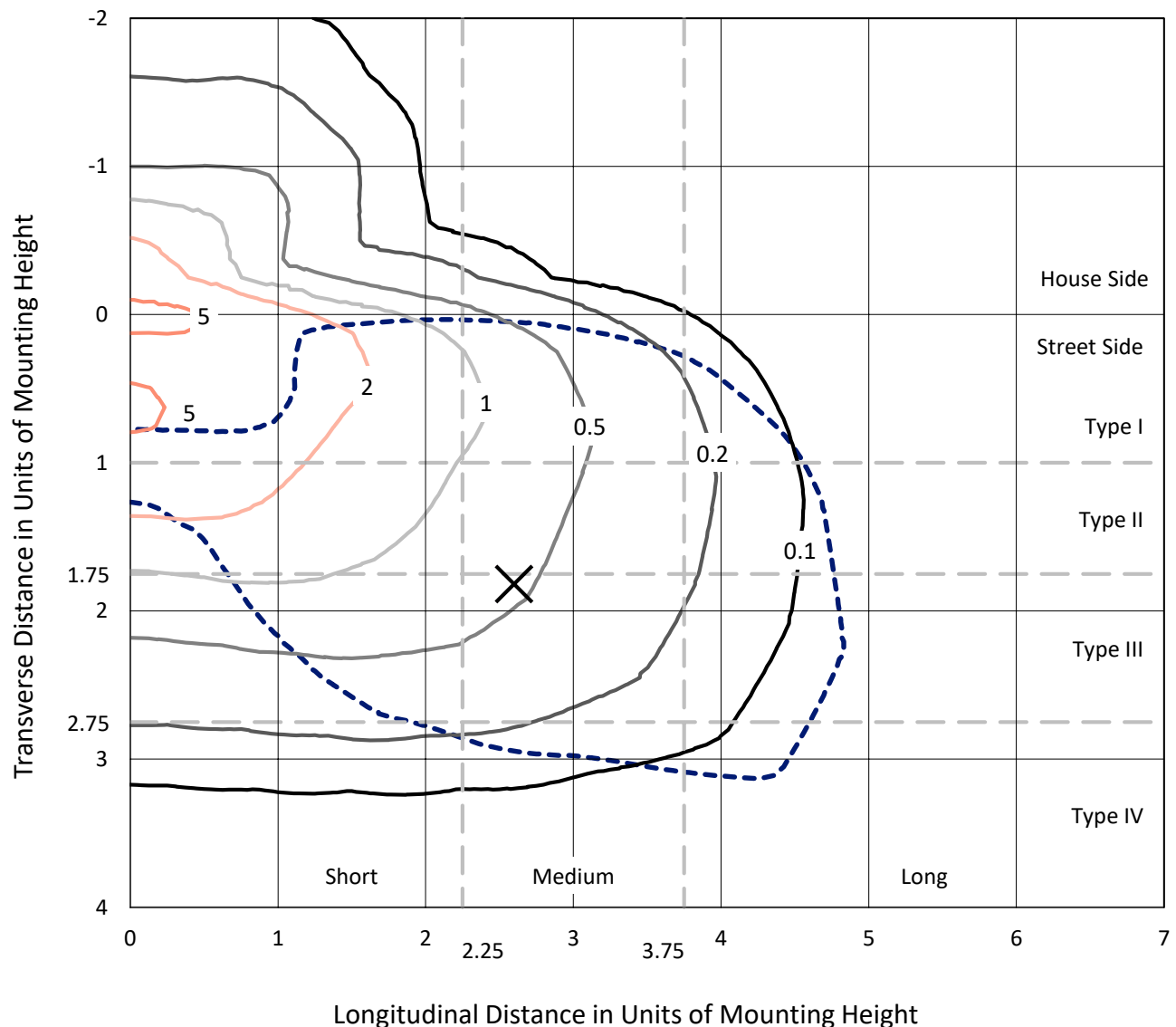


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Iso-Footcandle Lines of Horizontal Illumination

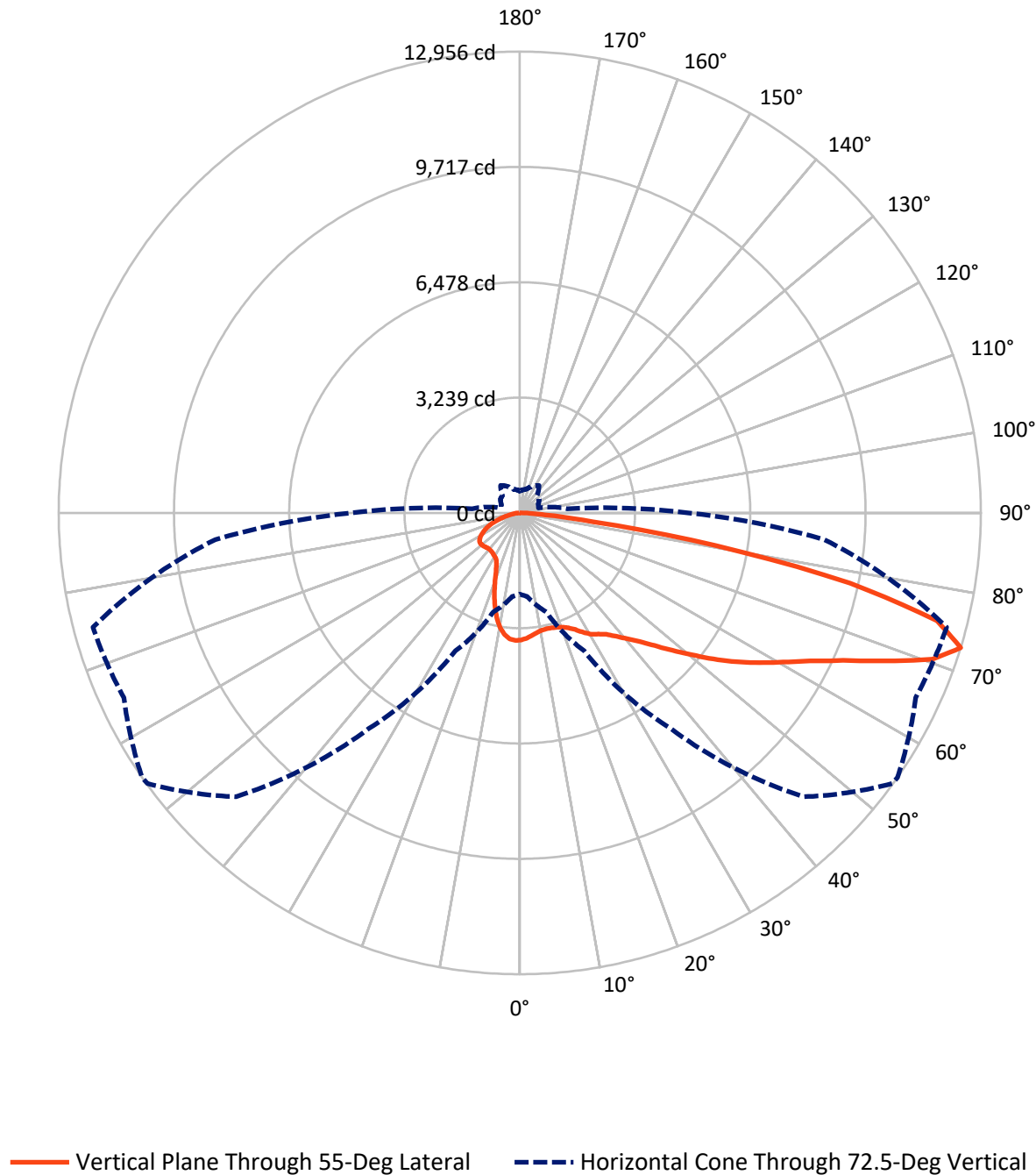
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3764.6	0.0	3764.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16489.4	0.0	16489.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	20254.0	0.0	20254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	1.6
10°-20°	860.6	4.2
20°-30°	1419.0	7.0
30°-40°	2099.0	10.4
40°-50°	2929.8	14.5
50°-60°	3814.7	18.8
60°-70°	4688.1	23.1
70°-80°	3674.9	18.1
80°-90°	444.7	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°	20254.0	100.0
0°-180°	20254.0	100.0

Coefficient of Utilization



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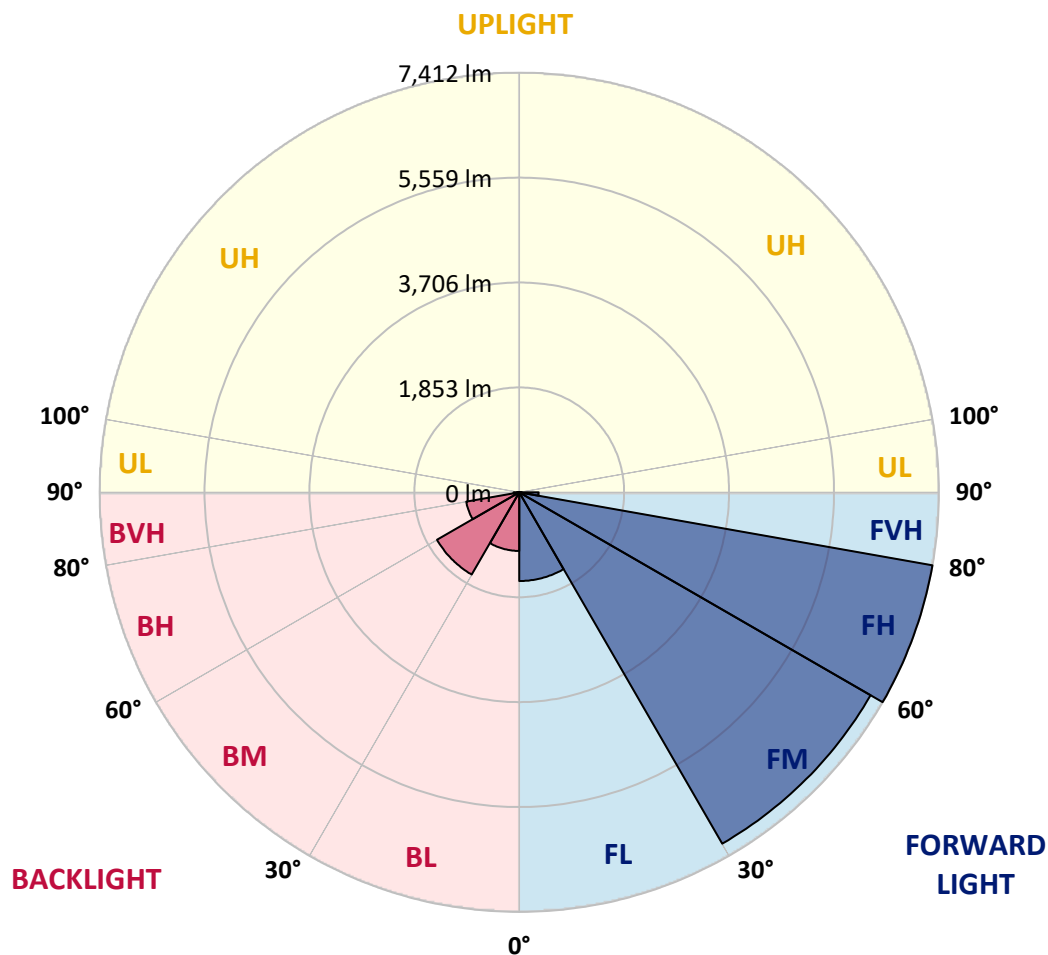
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1567.1	7.7			
FM	(30°-60°)	7166.3	35.4			
FH	(60°-80°)	7412.3	36.6			G3/7500
FVH	(80°-90°)	343.8	1.7			G3/500
BL	(0°-30°)	1035.8	5.1	B3/2500		
BM	(30°-60°)	1677.2	8.3	B2/2500		
BH	(60°-80°)	950.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	100.9	0.5			G2/225
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°	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4
2.5°	3456.1	3447.9	3458.1	3472.5	3488.2	3509.4	3521.7	3527.2	3548.4	3556.6	3574.4
5°	3296.0	3291.9	3309.0	3333.6	3368.5	3417.8	3457.4	3465.0	3521.1	3560.7	3597.0
7.5°	3179.7	3179.7	3199.5	3229.0	3267.9	3334.3	3390.4	3400.7	3495.8	3581.3	3648.3
10°	3087.3	3090.8	3114.0	3148.9	3194.7	3265.2	3339.8	3351.4	3488.9	3629.2	3735.9
12.5°	3025.8	3034.0	3055.2	3086.7	3143.4	3229.0	3323.4	3339.1	3503.3	3697.6	3841.2
15°	3064.8	3078.4	3080.5	3093.5	3125.0	3218.0	3332.9	3349.4	3534.1	3767.3	3960.9
17.5°	3235.8	3240.6	3219.4	3192.0	3177.0	3236.5	3361.7	3378.8	3571.0	3836.4	4075.9
20°	3495.8	3493.0	3447.2	3373.3	3296.7	3306.3	3408.9	3426.7	3620.9	3897.3	4190.8
22.5°	3824.1	3814.5	3744.1	3607.9	3477.3	3422.6	3491.6	3506.7	3696.2	3984.2	4313.9
25°	4222.3	4201.1	4108.0	3925.4	3733.1	3592.2	3616.2	3630.5	3805.6	4081.3	4426.8
27.5°	4642.3	4621.1	4502.7	4281.8	4025.9	3806.3	3787.9	3800.2	3930.2	4153.2	4510.3
30°	5081.5	5058.9	4950.8	4703.2	4336.5	4028.0	3947.9	3952.7	4017.7	4192.2	4578.7
32.5°	5522.7	5501.5	5380.4	5093.1	4673.8	4266.0	4063.6	4057.4	4070.4	4232.5	4656.0
35°	5970.1	5978.3	5836.7	5518.6	5047.3	4530.8	4200.4	4187.4	4158.6	4315.3	4765.4
37.5°	6449.0	6443.5	6260.2	5927.7	5437.9	4818.1	4396.7	4394.7	4295.5	4472.0	4937.1
40°	6769.2	6772.6	6661.1	6346.4	5832.6	5136.2	4648.5	4643.7	4513.7	4706.6	5162.2
42.5°	6894.4	6916.9	6945.7	6745.9	6245.8	5505.0	4948.8	4941.9	4818.1	5043.2	5427.0
45°	6903.3	6948.4	7126.3	7101.0	6664.5	5927.0	5332.6	5313.4	5224.5	5490.6	5743.0
47.5°	6826.6	6873.2	7168.7	7312.3	7038.7	6372.4	5781.3	5766.3	5689.7	6050.2	6085.1
50°	6659.0	6703.5	7081.1	7415.6	7346.5	6800.6	6298.5	6258.8	6217.8	6696.7	6476.4
52.5°	6345.0	6430.5	6964.1	7440.3	7530.6	7181.0	6842.4	6816.4	6838.9	7378.7	6868.4
55°	5601.4	5697.2	6662.4	7419.7	7666.7	7500.5	7386.2	7384.9	7501.8	8094.3	7289.1
57.5°	5184.8	5252.5	6048.1	7384.9	7828.2	7817.9	7924.6	7937.6	8165.4	8873.5	7729.6
60°	4949.5	5020.6	5736.9	7255.6	8078.5	8228.4	8473.9	8499.9	8839.9	9736.1	8259.8
62.5°	4735.3	4813.3	5543.9	6992.2	8373.4	8815.3	9132.0	9155.3	9554.1	10622.7	8772.2
65°	4369.3	4457.6	5261.4	6819.1	8641.6	9580.8	9968.7	9984.4	10374.4	11551.7	9164.2
67.5°	3852.2	3932.9	4728.5	6436.7	8839.9	10510.5	11081.1	11089.9	11187.8	12207.8	9364.6
70°	3248.1	3278.9	3969.1	5647.2	8605.3	11380.0	12300.1	12302.2	11929.3	12627.8	9331.8
72.5°	2282.2	2354.7	2881.4	4274.9	7395.1	11274.0	12932.9	12956.2	12274.1	12415.7	8586.1
75°	1399.7	1476.3	1807.4	2590.7	4691.6	8866.6	11949.2	12110.6	11627.6	11070.1	7014.1
77.5°	935.8	964.6	1179.4	1510.5	2125.5	5101.3	9186.8	9490.5	9659.5	8073.1	4485.6
80°	522.0	576.7	781.9	938.6	945.4	2027.0	5508.4	5579.5	5374.3	3214.6	1383.9
82.5°	276.4	306.5	522.0	551.4	515.8	678.6	2053.0	2055.0	1717.1	862.0	411.1
85°	214.1	239.4	357.8	336.6	263.4	301.0	677.3	714.2	584.2	353.0	134.1
87.5°	106.7	132.7	242.9	213.4	103.3	86.2	242.2	258.6	230.5	138.2	48.6
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°	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4
2.5°	3581.3	3587.4	3594.9	3586.7	3584.0	3573.1	3554.6	3550.5	3540.9	3541.6	3547.1
5°	3612.7	3623.0	3618.9	3587.4	3549.8	3497.1	3442.4	3395.9	3365.1	3363.0	3361.0
7.5°	3672.9	3679.8	3647.6	3558.0	3452.7	3330.9	3216.0	3115.4	3054.5	3039.5	3036.0
10°	3767.3	3766.0	3677.7	3497.1	3287.1	3069.6	2884.8	2745.3	2663.9	2639.9	2633.8
12.5°	3872.7	3857.0	3688.0	3386.3	3053.1	2751.4	2517.5	2362.2	2277.4	2250.0	2243.2
15°	3981.5	3942.5	3662.7	3220.7	2765.8	2408.7	2163.1	2019.5	1973.6	1958.6	1955.8
17.5°	4082.7	4007.5	3590.2	2996.4	2438.1	2067.3	1875.8	1818.3	1829.3	1849.1	1849.8
20°	4181.9	4051.2	3473.9	2713.1	2092.7	1786.2	1721.2	1763.6	1815.6	1856.0	1861.4
22.5°	4279.7	4082.0	3324.0	2386.1	1783.4	1628.2	1674.0	1751.3	1810.8	1854.6	1862.1
25°	4361.8	4089.5	3117.4	2037.2	1568.6	1568.6	1651.4	1724.6	1783.4	1826.5	1834.1
27.5°	4391.9	4038.9	2826.0	1714.4	1460.6	1541.3	1619.9	1680.8	1730.8	1776.6	1784.8
30°	4403.6	3945.2	2489.4	1455.1	1416.1	1511.9	1577.5	1629.5	1676.7	1719.8	1727.4
32.5°	4405.6	3832.3	2132.3	1308.0	1385.3	1481.1	1524.9	1570.7	1621.3	1638.4	1641.2
35°	4418.6	3698.9	1756.1	1232.7	1356.6	1452.3	1487.2	1520.1	1438.0	1444.1	1449.6
37.5°	4456.2	3566.9	1441.4	1190.3	1338.1	1437.3	1479.0	1360.0	1295.7	1280.6	1278.6
40°	4526.7	3426.0	1208.1	1156.1	1331.3	1444.8	1426.3	1269.7	1158.9	1076.1	1063.8
42.5°	4624.5	3274.1	1059.0	1133.6	1336.0	1481.1	1353.1	1182.8	998.8	945.4	938.6
45°	4734.7	3114.7	978.3	1117.8	1352.5	1509.1	1338.1	1067.2	924.2	883.9	880.4
47.5°	4841.4	2919.7	936.5	1111.0	1375.0	1486.5	1274.5	1031.6	888.6	867.4	869.5
50°	4963.8	2743.9	911.2	1103.5	1394.9	1472.2	1202.6	1013.2	875.0	901.0	928.3
52.5°	5067.1	2562.0	888.6	1088.4	1402.4	1446.9	1184.2	1016.6	875.0	924.9	950.9
55°	5189.6	2424.5	862.7	1056.9	1388.0	1375.0	1171.2	1037.1	885.2	853.8	856.5
57.5°	5347.6	2379.3	833.9	1007.7	1340.2	1270.4	1165.0	1056.9	879.1	859.2	866.1
60°	5566.5	2427.2	822.3	943.4	1265.6	1188.3	1165.7	1046.7	836.0	801.8	802.4
62.5°	5775.2	2480.5	821.6	903.0	1173.9	1115.1	1150.0	1013.2	814.1	794.2	801.8
65°	5843.6	2426.5	788.8	857.9	1070.6	1027.5	1121.2	977.6	797.7	767.6	766.2
67.5°	5751.9	2258.9	722.4	784.7	952.3	925.6	1083.6	935.2	771.7	747.0	742.9
70°	5479.6	1884.7	640.3	688.2	817.5	810.7	1024.1	885.9	736.8	715.6	697.8
72.5°	4747.0	1342.9	539.8	572.6	665.6	687.5	942.0	821.6	687.5	641.7	614.3
75°	3898.7	994.0	443.3	450.1	505.5	565.1	829.1	746.4	629.4	551.4	530.2
77.5°	2387.5	608.2	353.0	355.7	362.6	450.8	682.7	662.2	555.5	459.7	444.7
80°	773.0	331.8	255.2	268.2	247.6	330.4	528.1	563.7	476.8	384.5	368.0
82.5°	294.2	193.6	172.4	181.3	171.7	221.6	385.1	451.5	390.6	316.1	257.2
85°	142.3	109.5	101.9	114.2	106.0	113.6	246.3	332.5	296.2	205.9	191.5
87.5°	50.6	48.6	39.0	52.7	45.2	40.4	75.3	167.6	195.7	141.6	126.6
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)