

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: P318803

Luminaire Tested: **GAN-SA9B-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51394 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

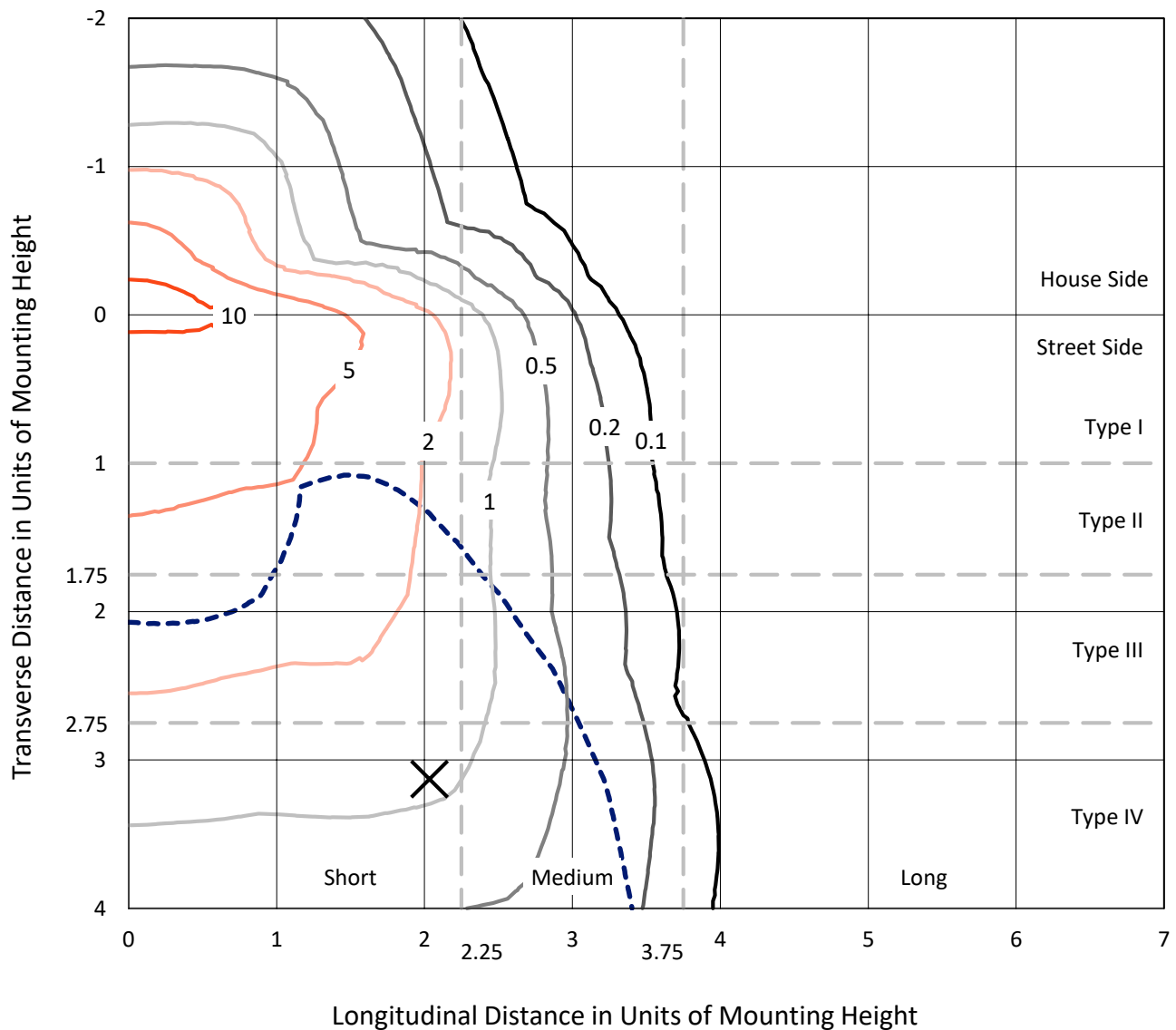
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

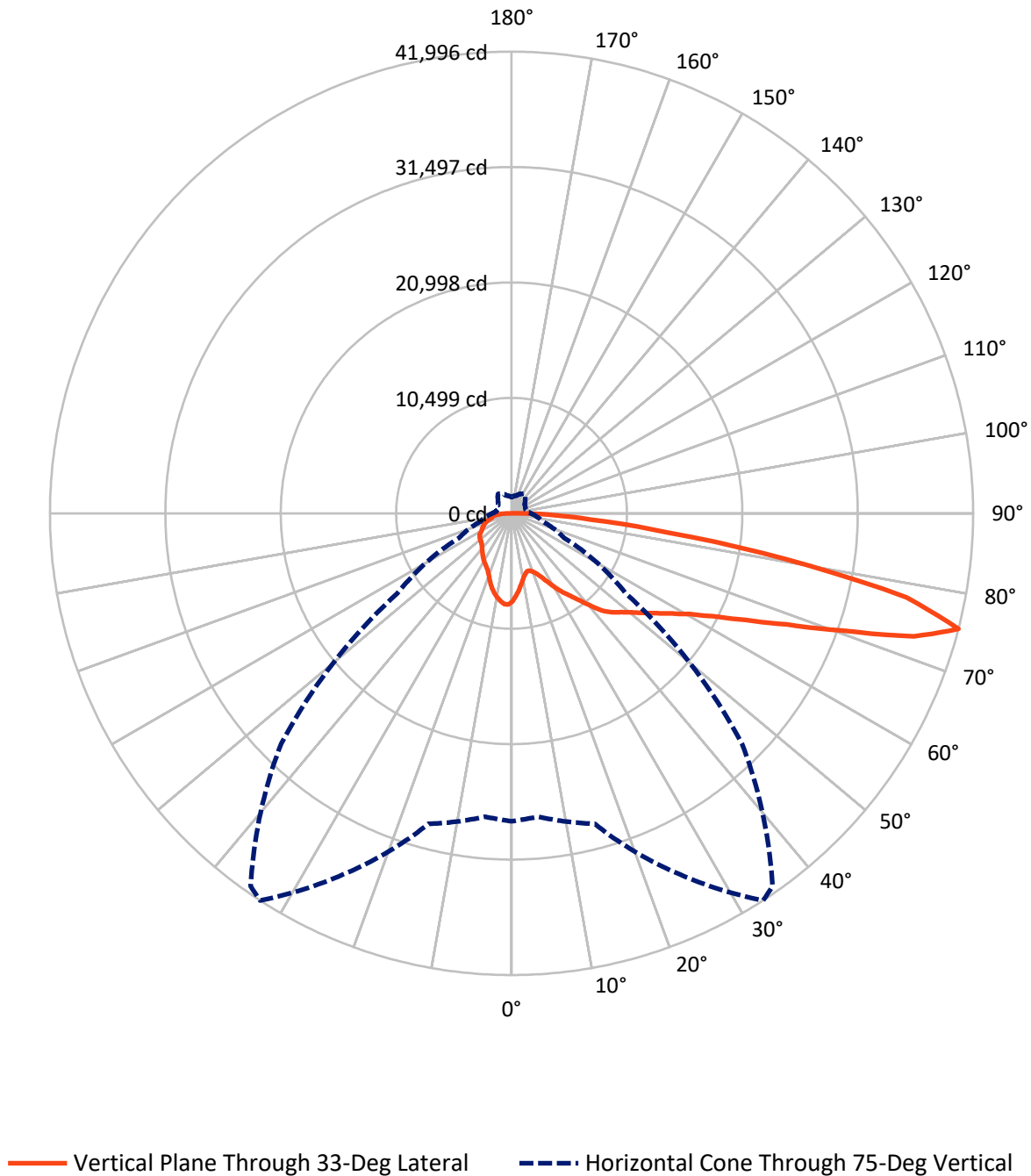
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11035.6	0.0	11035.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	40358.4	0.0	40358.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	51394.0	0.0	51394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.5	1.4
10°-20°	1967.7	3.8
20°-30°	3213.5	6.3
30°-40°	4785.6	9.3
40°-50°	6863.9	13.4
50°-60°	9423.1	18.3
60°-70°	11797.3	23.0
70°-80°	10672.4	20.8
80°-90°	1944.0	3.8
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°	51394.0	100.0
0°-180°	51394.0	100.0

Coefficient of Utilization



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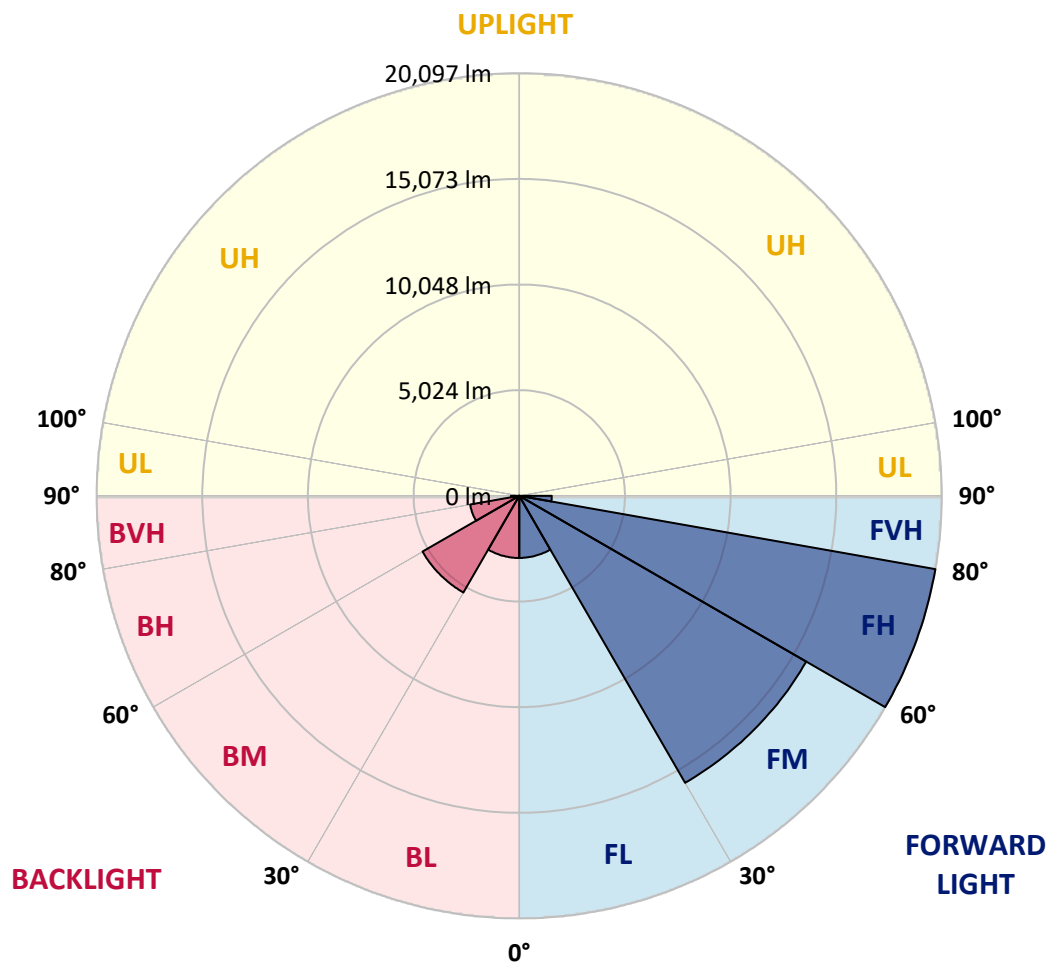
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2951.8	5.7			
FM	(30°-60°)	15761.5	30.7			
FH	(60°-80°)	20096.8	39.1			G5
FVH	(80°-90°)	1548.3	3.0			G5
BL	(0°-30°)	2955.9	5.8	B4/5000		
BM	(30°-60°)	5311.1	10.3	B4/8500		
BH	(60°-80°)	2372.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	395.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2
2.5°	7459.8	7431.3	7484.6	7491.7	7537.9	7555.6	7619.5	7718.9	7800.6	7894.7	7979.9
5°	6783.4	6763.8	6838.4	6891.7	6992.9	7035.5	7186.4	7397.6	7585.8	7798.8	7992.3
7.5°	6140.7	6130.1	6213.5	6334.2	6451.4	6510.0	6770.9	7078.1	7392.3	7736.7	8033.2
10°	5599.3	5595.7	5675.6	5794.5	5966.7	6032.4	6369.7	6774.5	7214.8	7688.8	8102.4
12.5°	5295.7	5308.1	5345.4	5444.8	5604.6	5670.3	6044.8	6520.6	7065.6	7672.8	8203.6
15°	5370.2	5389.8	5325.9	5322.3	5435.9	5487.4	5838.9	6339.5	6959.1	7699.4	8350.9
17.5°	5688.0	5691.6	5522.9	5416.4	5485.6	5512.3	5775.0	6236.6	6897.0	7759.8	8535.6
20°	6135.4	6126.5	5828.3	5650.7	5688.0	5695.1	5865.5	6238.4	6891.7	7864.5	8775.2
22.5°	6728.3	6662.6	6261.4	6020.0	6011.1	6000.5	6098.1	6369.7	6969.8	8034.9	9061.1
25°	7502.4	7440.2	6888.1	6557.9	6486.9	6460.3	6474.5	6650.2	7124.2	8217.8	9380.6
27.5°	8363.4	8255.1	7722.5	7255.6	7108.2	7071.0	6985.8	7046.1	7292.9	8393.6	9760.5
30°	9084.1	9025.6	8560.4	8006.5	7832.6	7779.3	7555.6	7489.9	7536.1	8633.2	10239.9
32.5°	9487.1	9448.1	9165.8	8718.4	8556.9	8482.3	8166.3	8034.9	7926.7	9011.4	10889.6
35°	9975.3	9950.5	9780.1	9455.2	9215.5	9137.4	8892.4	8755.7	8477.0	9531.5	11729.3
37.5°	10596.7	10570.1	10573.6	10310.9	10025.0	9952.3	9790.7	9646.9	9190.7	10215.0	12641.8
40°	11299.7	11248.2	11228.7	11216.3	11035.2	10994.3	10909.1	10713.9	10085.4	11031.6	13541.9
42.5°	12357.8	12174.9	11784.4	11931.7	12111.0	12089.7	12158.9	11878.4	11079.6	11997.4	14420.7
45°	13378.6	13078.5	12403.9	12435.9	12828.2	12947.2	13465.5	13266.7	12157.2	13055.5	15329.6
47.5°	13843.7	13616.4	13043.0	13044.8	13433.6	13680.4	14816.5	14674.5	13289.8	14257.3	16439.2
50°	14363.8	14136.6	13621.8	13815.3	14154.4	14417.1	16121.4	16048.6	14367.4	15572.8	17768.8
52.5°	14931.9	14546.7	14220.0	14566.2	15042.0	15347.3	17428.0	17229.2	15356.2	16897.2	19297.4
55°	14939.0	14834.3	15082.8	15336.7	16048.6	16423.2	18796.7	18271.2	16162.2	18198.5	20541.8
57.5°	15789.4	15619.0	16146.2	16263.4	17193.6	17616.2	20158.4	19178.4	16982.4	19196.2	21212.9
60°	16914.9	16769.4	17200.7	17509.6	18610.3	19174.9	21612.3	20110.4	17626.8	19948.9	21180.9
62.5°	18858.9	18693.8	18688.4	19121.6	20604.0	21260.8	23243.8	21024.7	17882.5	20098.0	20277.3
65°	21704.6	21441.9	20946.6	21152.5	23357.4	24012.5	25067.0	21686.9	17545.2	19299.1	17949.9
67.5°	24474.1	24465.2	23856.3	24278.8	26993.2	27518.7	27144.1	21752.6	16492.4	16517.3	13820.6
70°	27234.7	27270.2	27167.2	28637.1	31905.4	32452.2	29356.1	20870.3	14126.0	11928.1	8279.9
72.5°	29421.8	29412.9	29931.3	33721.6	38280.5	38158.0	31220.2	18196.7	10142.2	6439.0	3957.1
75°	28005.1	27696.2	29240.7	36238.9	41996.2	41397.9	29634.9	12693.3	5263.7	2931.0	2130.3
77.5°	18265.9	18558.8	20825.9	29936.7	36734.2	36006.4	21741.9	5922.4	2480.1	1922.6	1544.5
80°	6614.7	6923.6	9751.6	16957.5	25308.5	25189.5	10706.8	2433.9	1677.6	1452.2	1125.5
82.5°	2275.9	2389.5	3847.0	7530.8	14289.3	14821.9	4028.1	1382.9	1219.6	1029.7	770.5
85°	893.0	1022.6	1759.3	3623.4	7207.7	7260.9	1631.5	827.3	848.6	674.6	422.5
87.5°	339.1	411.9	841.5	1683.0	3291.4	3023.3	584.1	394.1	482.9	401.2	200.6
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°	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2	8033.2
2.5°	8045.6	8082.9	8161.0	8214.2	8271.1	8287.0	8294.1	8308.3	8322.5	8317.2	8319.0
5°	8095.3	8168.1	8294.1	8347.4	8372.3	8343.8	8288.8	8244.4	8212.5	8194.7	8189.4
7.5°	8177.0	8279.9	8414.9	8406.0	8349.2	8223.1	8081.1	7974.6	7885.8	7853.9	7836.1
10°	8285.3	8406.0	8500.1	8398.9	8233.8	8015.4	7802.4	7637.3	7504.1	7452.7	7443.8
12.5°	8423.7	8546.2	8564.0	8349.2	8075.8	7777.5	7488.2	7269.8	7071.0	7007.1	6992.9
15°	8603.0	8718.4	8608.4	8262.2	7880.5	7479.3	7104.7	6808.2	6598.7	6520.6	6492.2
17.5°	8791.2	8901.3	8617.2	8118.4	7624.9	7126.0	6655.5	6352.0	6112.3	6021.8	6011.1
20°	9016.7	9066.4	8580.0	7912.5	7273.3	6668.0	6172.7	5886.8	5759.0	5695.1	5688.0
22.5°	9295.4	9242.1	8494.7	7633.7	6827.8	6138.9	5735.9	5602.8	5570.8	5556.6	5562.0
25°	9590.1	9426.8	8368.7	7269.8	6265.0	5609.9	5416.4	5453.7	5496.3	5491.0	5491.0
27.5°	9915.0	9615.0	8175.2	6786.9	5641.9	5176.7	5199.8	5336.5	5400.4	5398.6	5396.9
30°	10332.2	9828.0	7928.4	6206.4	5059.6	4871.4	5011.6	5178.5	5265.5	5261.9	5263.7
32.5°	10845.2	10062.3	7592.9	5558.4	4638.8	4645.9	4807.5	4972.6	5073.8	5064.9	5066.7
35°	11445.3	10325.1	7138.4	4919.3	4360.1	4466.6	4594.4	4709.8	4805.7	4793.3	4780.8
37.5°	12098.6	10582.5	6534.8	4347.7	4132.9	4299.7	4406.3	4425.8	4470.2	4438.2	4415.1
40°	12719.9	10779.5	5757.3	3879.0	3903.9	4157.7	4227.0	4148.8	4069.0	4058.3	4026.3
42.5°	13261.4	10845.2	4970.8	3504.4	3662.4	4008.6	4051.2	3887.9	3744.1	3676.6	3648.2
45°	13833.0	10868.3	4237.6	3190.2	3429.9	3875.4	3921.6	3703.2	3500.9	3355.3	3307.4
47.5°	14580.4	11035.2	3667.7	2957.6	3252.3	3786.7	3852.4	3555.9	3293.2	3085.4	3041.1
50°	15558.6	11365.4	3204.4	2780.1	3136.9	3728.1	3802.7	3412.1	3122.7	2872.4	2828.0
52.5°	16645.1	11669.0	2829.8	2636.3	3025.1	3625.1	3738.8	3309.1	2963.0	2675.4	2627.4
55°	17404.9	11436.4	2528.0	2487.2	2879.5	3477.8	3650.0	3222.1	2733.9	2483.6	2441.0
57.5°	17550.5	10641.1	2299.0	2332.7	2703.8	3293.2	3513.3	3028.6	2609.7	2400.2	2355.8
60°	17152.8	9533.3	2128.6	2190.7	2515.6	3060.6	3257.7	2891.9	2490.7	2311.4	2274.1
62.5°	16153.3	8398.9	2002.5	2062.9	2339.8	2824.5	3097.9	2748.1	2370.0	2210.2	2173.0
65°	14134.8	7051.4	1881.8	1949.3	2176.5	2620.3	2954.1	2615.0	2251.1	2128.6	2093.1
67.5°	10669.5	5281.5	1768.2	1828.5	2030.9	2442.8	2797.9	2483.6	2135.7	2057.6	2014.9
70°	6282.7	3307.4	1638.6	1702.5	1878.3	2258.2	2631.0	2339.8	1991.9	1956.4	1901.3
72.5°	2923.9	1990.1	1491.2	1553.4	1686.5	2011.4	2416.2	2151.6	1821.4	1743.3	1668.8
75°	1745.1	1455.7	1317.3	1372.3	1466.4	1748.7	2146.3	1959.9	1659.9	1556.9	1478.8
77.5°	1304.8	1113.1	1125.5	1184.1	1260.5	1530.3	1901.3	1809.0	1535.6	1455.7	1402.5
80°	939.1	845.0	917.8	981.7	1061.6	1391.8	1821.4	1672.3	1388.3	1281.8	1232.0
82.5°	626.7	607.1	690.6	756.3	834.4	1217.8	1711.4	1464.6	1185.9	1051.0	940.9
85°	346.2	365.7	465.1	493.5	561.0	857.5	1402.5	1177.0	893.0	719.0	687.0
87.5°	143.8	168.7	250.3	241.4	298.2	511.3	923.1	710.1	568.1	424.3	330.2
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)