

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: P193247

Luminaire Tested: **GAN-AF-09-LED-U-T3R-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T3R-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 57726 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

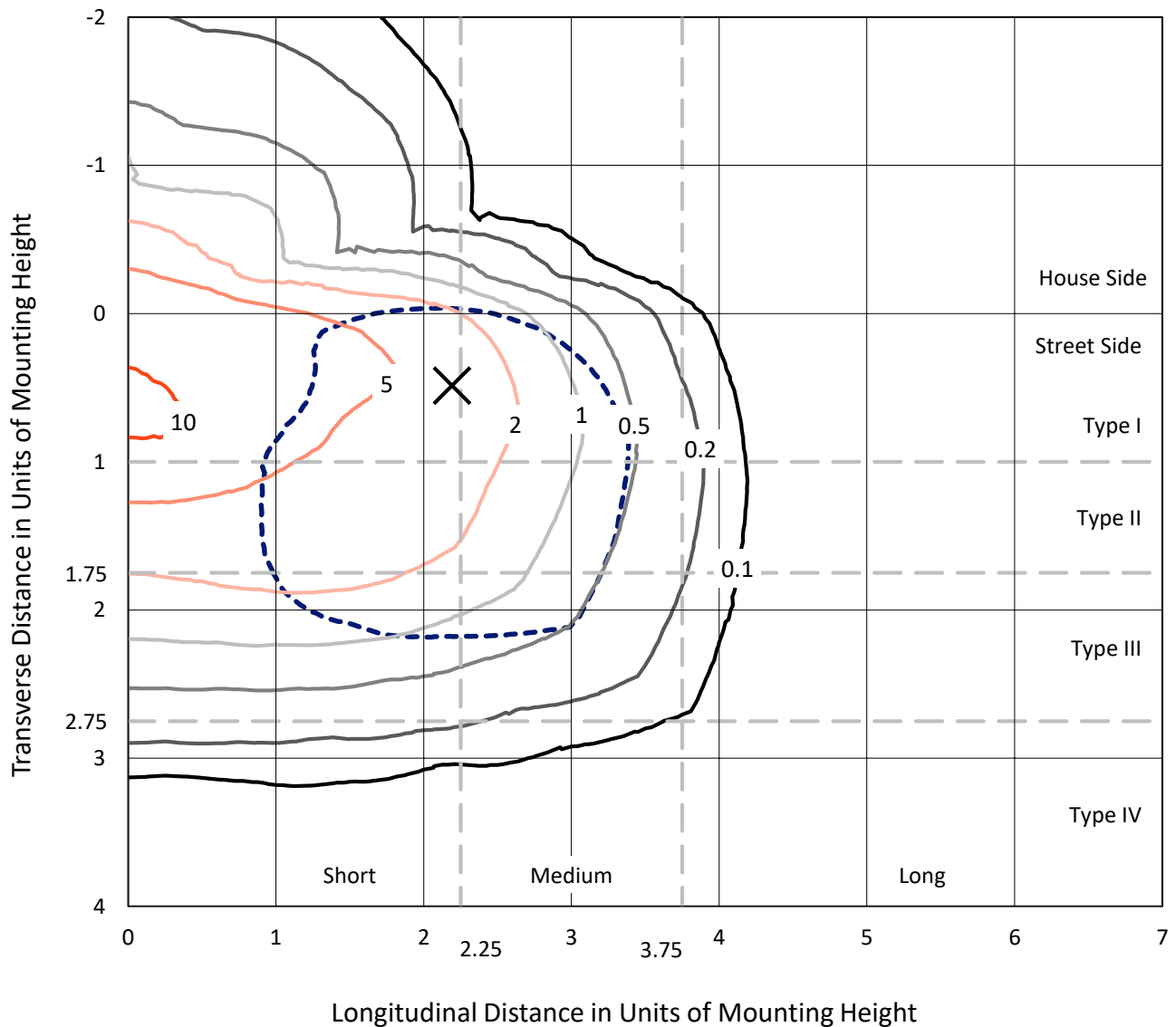


REPORT NUMBER: P193247

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7030-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

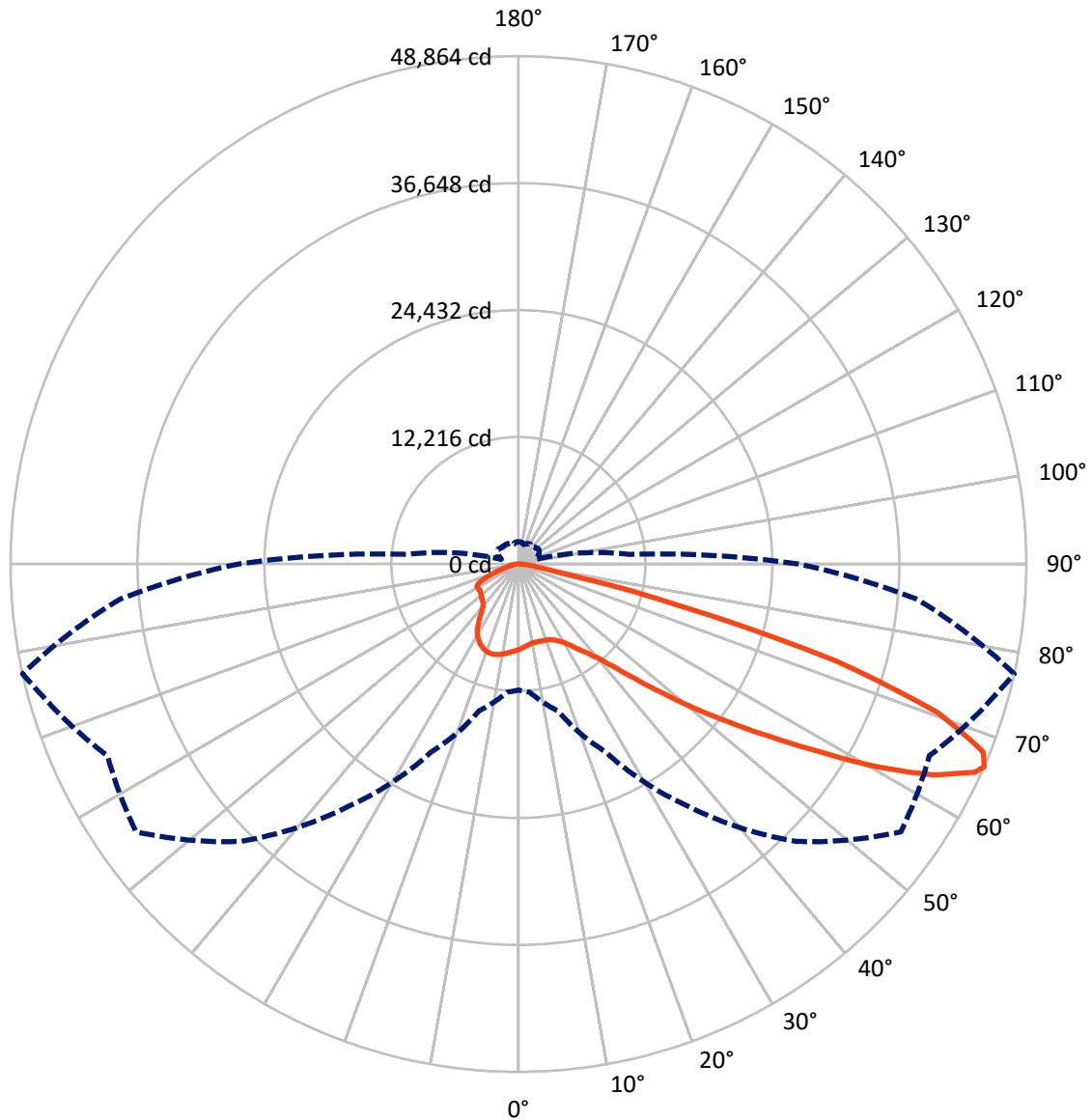


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193247

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7030-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P193247

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7030-1200-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9862.1	0.0	9862.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	47863.9	0.0	47863.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	57726.0	0.0	57726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.9	1.3
10°-20°	2073.4	3.6
20°-30°	3538.6	6.1
30°-40°	5664.6	9.8
40°-50°	8751.3	15.2
50°-60°	12412.4	21.5
60°-70°	16604.5	28.8
70°-80°	7211.0	12.5
80°-90°	735.3	1.3
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°	57726.0	100.0
0°-180°	57726.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193247

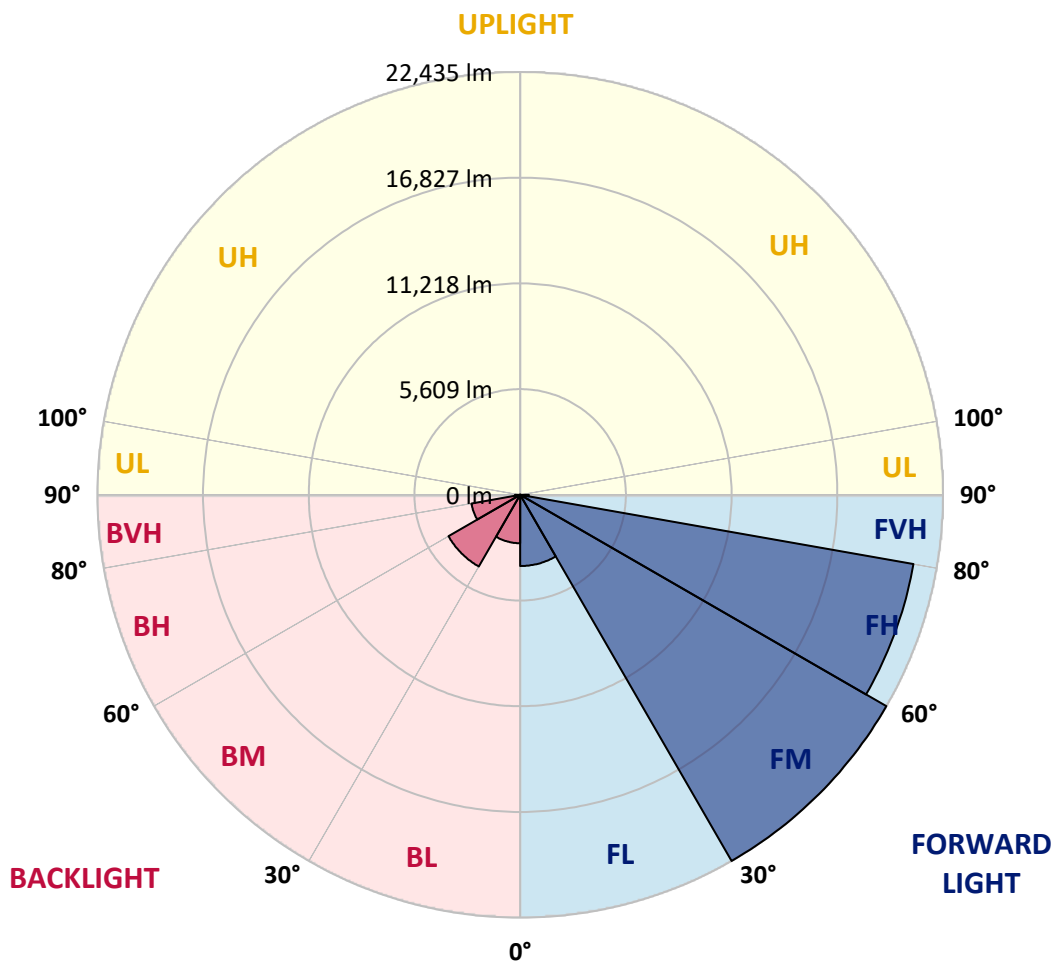
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3778.4	6.5			
FM	(30°-60°)	22435.4	38.9			
FH	(60°-80°)	21189.0	36.7			G5
FVH	(80°-90°)	461.2	0.8			G3/500
BL	(0°-30°)	2568.5	4.4	B4/5000		
BM	(30°-60°)	4393.0	7.6	B3/5000		
BH	(60°-80°)	2626.5	4.5	B4/5000		G4/5000
BVH	(80°-90°)	274.1	0.5			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 III Short





REPORT NUMBER: P193247

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7030-1200-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2
2.5°	7277.1	7326.2	7367.1	7405.3	7481.6	7607.0	7751.6	7869.0	8037.9	8070.8	8160.8
5°	6608.8	6608.8	6641.6	6698.8	6802.5	6990.6	7187.1	7448.9	7817.1	7904.4	8144.4
7.5°	6284.3	6287.0	6306.0	6355.2	6445.2	6617.0	6832.4	7140.6	7639.9	7784.4	8193.5
10°	6404.2	6376.9	6336.1	6311.5	6325.1	6426.1	6630.6	6974.3	7530.7	7716.2	8302.6
12.5°	7075.2	7023.4	6881.5	6693.3	6513.4	6439.7	6559.7	6895.3	7484.4	7699.8	8447.2
15°	8171.7	8149.8	7885.2	7495.3	7058.8	6693.3	6611.5	6865.2	7489.8	7718.9	8619.0
17.5°	9546.3	9516.4	9167.2	8599.9	7888.0	7176.1	6794.3	6889.8	7508.9	7751.6	8785.4
20°	10934.6	10841.9	10465.5	9789.1	8875.3	7833.5	7097.1	6952.5	7533.4	7787.1	8960.0
22.5°	11971.1	11894.7	11556.6	10899.2	9846.3	8594.5	7503.5	7061.5	7612.5	7890.7	9175.4
25°	12882.1	12887.5	12552.1	11916.6	10828.2	9401.8	8027.2	7353.4	7814.3	8103.5	9469.9
27.5°	14008.5	13943.1	13629.4	12999.4	11799.4	10217.4	8659.9	7754.3	8114.3	8406.3	9857.3
30°	15356.0	15309.6	14946.8	14232.2	12876.6	11092.9	9382.7	8220.7	8501.7	8804.4	10364.7
32.5°	16940.6	16918.9	16542.5	15623.3	14120.4	12123.9	10230.9	8837.2	9080.0	9393.6	11092.9
35°	18800.9	18803.6	18359.1	17254.3	15481.5	13323.9	11193.8	9630.8	9783.6	10111.0	11960.2
37.5°	19946.5	20085.5	19919.2	18792.7	17022.5	14666.0	12443.0	10683.7	10585.6	10915.5	12890.3
40°	20191.8	20361.0	20887.4	20314.7	18746.3	16144.2	13550.4	11695.6	11573.0	11976.6	14087.7
42.5°	19848.2	20082.8	21195.6	21599.4	20576.5	17966.3	15039.6	13198.5	13043.1	13585.9	15577.0
45°	19643.7	19818.2	21105.6	22267.6	22163.9	20025.6	16935.3	15086.0	15028.7	15740.6	17295.3
47.5°	19289.0	19447.3	20685.6	22423.1	23096.8	21913.0	19212.7	17393.4	17505.3	18438.1	19234.5
50°	19480.1	19545.5	20216.5	22027.5	23366.7	23295.8	21757.6	20066.4	20448.3	21613.0	21430.2
52.5°	19452.7	19621.9	20161.9	21378.4	23402.2	24149.6	24264.1	23047.7	23852.3	25188.7	23865.9
55°	15727.0	16037.8	19521.0	21214.8	23527.7	24986.9	26495.3	26189.8	27689.9	29247.3	26615.2
57.5°	15017.8	15214.2	17145.3	21558.4	24193.2	26585.3	28977.3	29648.3	32157.6	33966.0	29964.7
60°	14878.7	15121.5	17120.7	21978.5	25543.2	29190.0	32656.7	33835.1	37593.6	39573.7	33848.6
62.5°	14445.0	14706.9	16959.8	21923.9	27460.7	32793.1	37367.2	38286.4	42748.6	44674.3	37097.2
65°	13070.3	13315.8	15647.9	21042.9	28753.6	36638.9	42942.2	42366.7	46818.0	48266.4	38717.3
66°	12129.3	12369.4	14614.1	20006.5	28453.7	37730.0	44917.0	43629.6	47729.1	48863.7	38401.0
67.5°	10408.2	10596.5	12606.7	17685.4	26858.0	38035.5	46578.1	44578.8	47824.5	48225.5	36592.6
70°	6576.1	6630.6	8193.5	12208.4	20331.1	32986.8	44049.6	42222.1	43880.4	42795.0	30676.5
72.5°	2853.0	2833.8	3933.2	6210.7	11510.1	22134.0	35632.5	34838.7	34421.5	31944.9	21473.9
75°	1587.4	1609.3	2042.9	2883.1	4677.7	10872.0	23309.5	22305.8	18833.6	16070.6	9737.3
77.5°	1273.8	1303.8	1693.8	2045.7	2100.2	3791.3	10907.4	8875.3	5343.3	4287.7	2705.7
80°	1006.5	1061.0	1478.3	1592.9	1415.6	1562.9	3523.9	2817.6	2113.8	1939.3	1401.9
82.5°	796.4	834.6	1268.3	1205.5	990.1	1052.8	1688.4	1644.7	1374.7	1251.9	810.0
85°	572.7	643.6	1041.9	908.3	649.1	709.2	1121.0	1074.7	788.3	643.6	357.3
87.5°	234.6	305.5	736.4	602.8	362.7	330.1	559.2	526.4	373.6	272.7	177.3
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°	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2	8226.2
2.5°	8218.1	8283.5	8368.0	8419.8	8447.2	8466.3	8496.2	8493.5	8501.7	8504.4	8515.3
5°	8272.6	8381.8	8504.4	8537.2	8537.2	8507.2	8477.2	8428.0	8409.0	8403.5	8409.0
7.5°	8414.4	8534.5	8640.8	8602.6	8520.8	8400.8	8245.4	8109.0	8035.3	8010.8	8005.3
10°	8594.5	8739.0	8782.7	8638.1	8398.1	8109.0	7800.8	7577.1	7448.9	7413.5	7402.6
12.5°	8812.7	8949.0	8889.0	8583.5	8138.9	7672.5	7247.0	6889.8	6622.4	6537.8	6532.4
15°	9052.6	9159.1	8949.0	8414.4	7751.6	7064.2	6306.0	5689.6	5356.9	5250.5	5242.4
17.5°	9276.3	9330.8	8913.6	8119.8	7181.6	6068.8	5062.3	4587.7	4473.2	4500.4	4505.9
20°	9467.4	9467.4	8793.5	7697.1	6284.3	4756.8	4121.3	4113.1	4194.9	4276.7	4293.2
22.5°	9677.3	9551.8	8583.5	7099.7	5013.3	3892.2	3799.5	3875.9	3968.6	4058.6	4072.2
25°	9936.4	9619.9	8291.6	6194.2	3941.3	3534.9	3570.4	3633.1	3679.5	3736.6	3744.9
27.5°	10225.5	9707.2	7907.1	4947.7	3420.4	3311.2	3338.5	3360.3	3355.0	3376.6	3382.1
30°	10571.9	9808.2	7380.7	3867.7	3204.9	3120.3	3071.2	3052.1	3052.1	3087.5	3101.3
32.5°	11035.6	9958.2	6625.2	3314.0	3101.3	2983.9	2825.8	2754.8	2782.1	2902.2	2929.3
35°	11545.7	10119.1	5602.4	3125.8	3079.4	2921.1	2675.8	2544.7	2547.5	2659.4	2694.8
37.5°	12102.1	10323.7	4481.4	3090.3	3128.5	2923.9	2596.6	2416.6	2342.9	2342.9	2356.6
40°	12813.9	10533.6	3627.6	3114.9	3232.1	2956.7	2555.7	2315.6	2108.3	2113.8	2124.8
42.5°	13741.3	10713.8	3169.4	3166.7	3357.5	3000.3	2553.0	2182.0	2001.9	2124.8	2236.5
45°	14772.3	10803.8	2967.6	3213.0	3458.5	3027.6	2509.3	2160.2	2015.7	2381.1	2594.0
47.5°	15958.7	10751.8	2855.7	3229.3	3483.0	3027.6	2460.2	2212.1	2111.1	2757.4	3005.7
50°	17259.8	10601.9	2746.7	3196.7	3474.9	3022.1	2506.6	2263.9	2146.6	2823.0	2994.8
52.5°	18790.0	10476.5	2632.0	3125.8	3417.6	2992.1	2561.1	2242.0	2034.7	2566.6	2686.5
55°	20535.6	10512.0	2503.9	3024.9	3327.6	2934.8	2542.0	2154.7	1917.5	2261.1	2334.8
57.5°	22766.7	10934.6	2351.2	2896.7	3204.9	2839.3	2473.8	2113.8	1882.0	2051.2	2094.7
60°	25256.9	11671.1	2160.2	2768.4	3052.1	2686.5	2422.1	2133.0	1898.4	2034.7	2056.6
62.5°	27084.4	12099.4	1996.6	2580.2	2844.8	2517.6	2356.6	2157.5	1942.0	2092.0	2086.6
65°	27580.8	11395.6	1792.0	2304.8	2563.9	2340.3	2274.8	2184.7	1961.1	2138.4	2113.8
66°	26885.3	10637.4	1701.9	2176.6	2422.1	2252.9	2233.8	2182.0	1952.9	2143.8	2102.9
67.5°	25197.0	9082.7	1546.6	1988.4	2195.7	2122.1	2168.4	2157.5	1931.0	2138.4	2081.1
70°	20549.3	6196.9	1322.8	1655.6	1827.5	1868.4	2042.9	2070.3	1860.1	2042.9	1917.5
72.5°	14357.8	3774.9	1170.0	1284.7	1478.3	1592.9	1871.1	1950.2	1764.7	1783.7	1663.8
75°	6938.8	2004.7	1061.0	995.6	1148.4	1331.0	1663.8	1786.5	1614.8	1491.9	1448.3
77.5°	2162.9	1224.7	900.1	801.9	900.1	1074.7	1391.1	1565.5	1437.5	1249.2	1232.9
80°	1162.0	900.1	692.8	643.6	712.0	842.8	1093.8	1306.5	1235.6	1121.0	1001.1
82.5°	766.5	583.7	512.8	499.1	542.8	643.6	812.8	1082.9	1082.9	960.1	698.2
85°	395.5	357.3	351.9	351.9	379.1	428.2	553.7	834.6	889.2	507.3	420.0
87.5°	196.3	204.6	190.8	199.1	212.7	210.0	264.5	420.0	501.8	308.2	256.4
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)