

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: P318052

Luminaire Tested: **GAN-SA8C-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50660 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

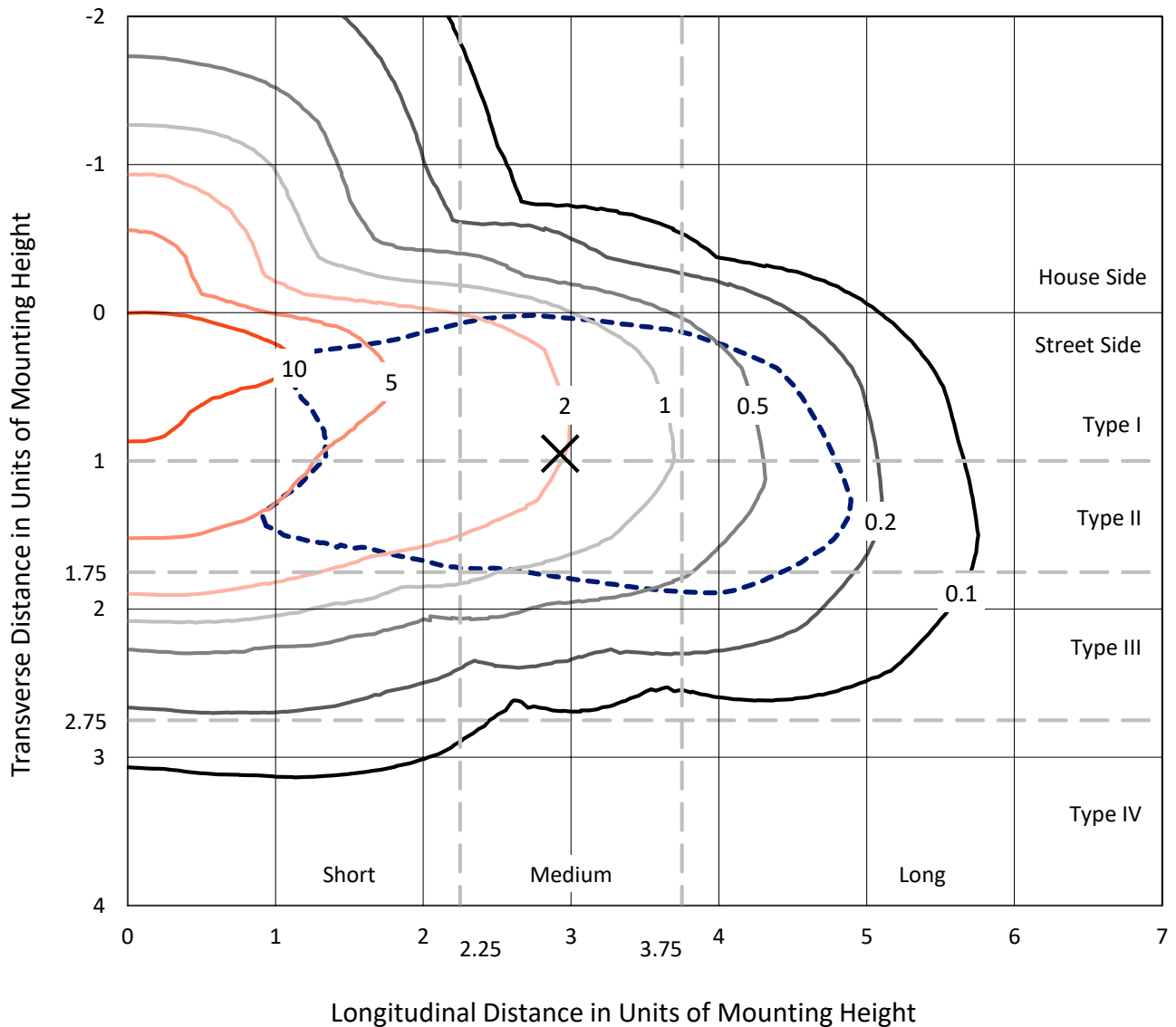
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

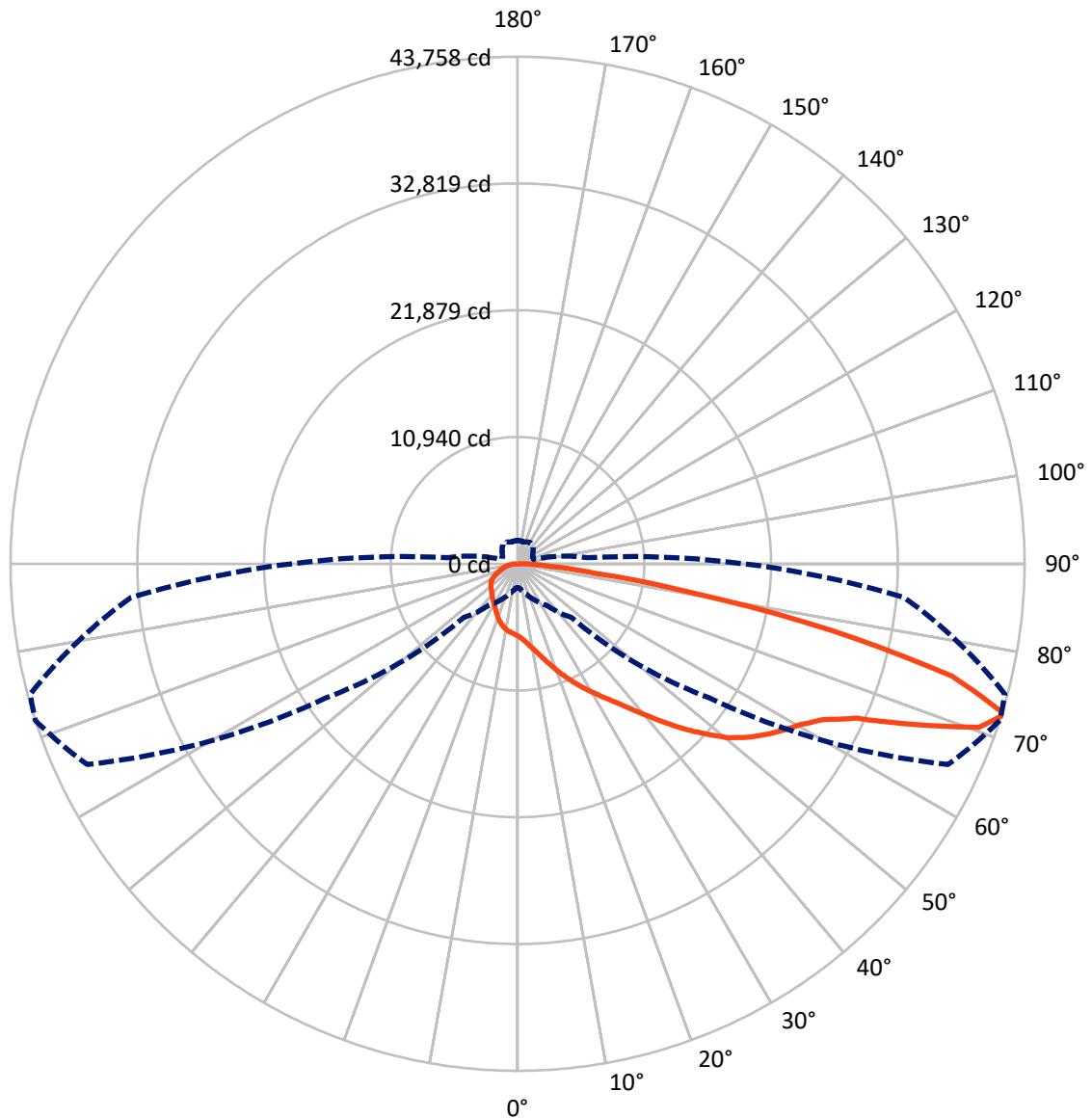
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9397.8	0.0	9397.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41262.2	0.0	41262.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	50660.0	0.0	50660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.5	1.2
10°-20°	2018.1	4.0
20°-30°	3536.4	7.0
30°-40°	5243.4	10.4
40°-50°	7668.9	15.1
50°-60°	10552.3	20.8
60°-70°	11747.8	23.2
70°-80°	7960.3	15.7
80°-90°	1308.3	2.6
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°	50660.0	100.0
0°-180°	50660.0	100.0

Coefficient of Utilization

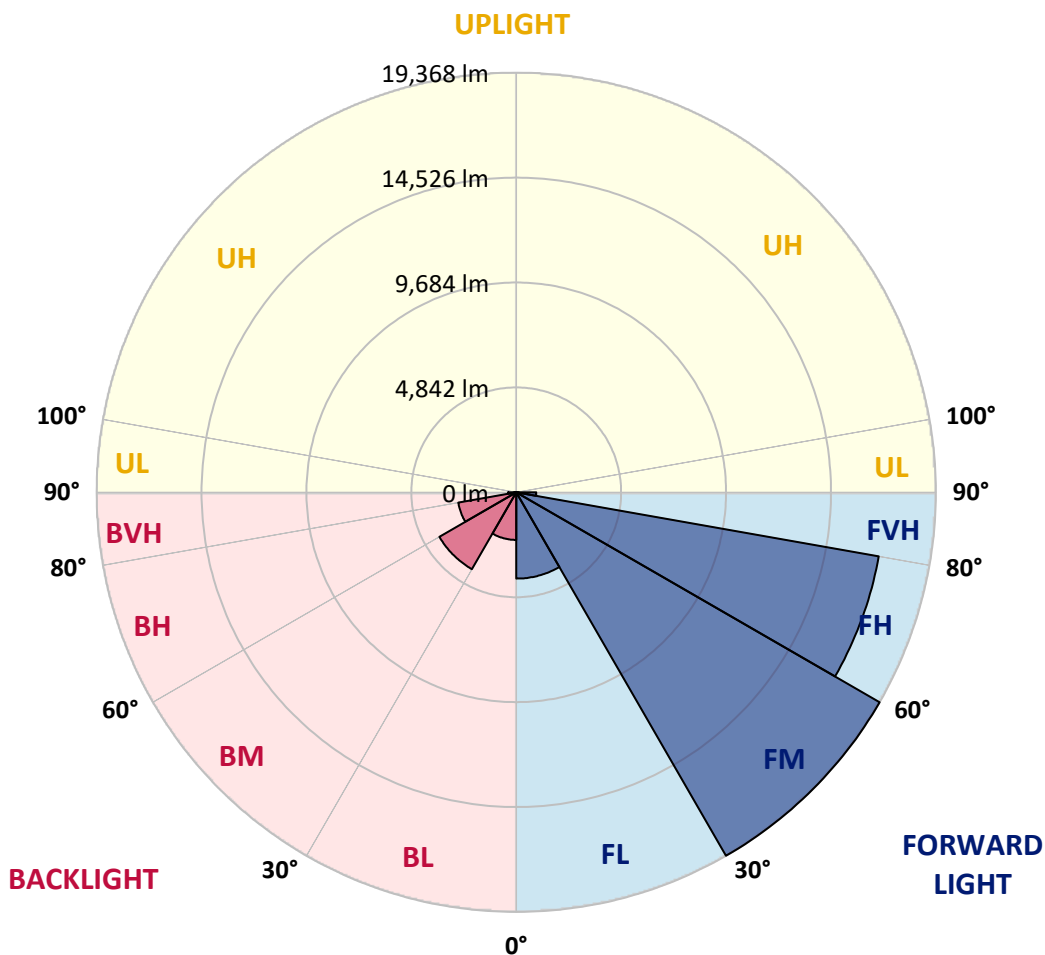


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3982.2	7.9			
FM (30°-60°)	19367.9	38.2			
FH (60°-80°)	16989.2	33.5			G5
FVH (80°-90°)	922.9	1.8			G5
BL (0°-30°)	2196.9	4.3	B3/2500		
BM (30°-60°)	4096.5	8.1	B3/5000		
BH (60°-80°)	2718.9	5.4	B4/5000		G4/5000
BVH (80°-90°)	385.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5
2.5°	6884.9	6874.4	6837.8	6837.8	6768.0	6708.7	6597.1	6522.1	6433.1	6401.7	6297.0
5°	7551.2	7554.7	7509.4	7478.0	7375.0	7249.4	7059.3	6886.6	6713.9	6644.2	6429.6
7.5°	8111.1	8104.2	8092.0	8065.8	7969.9	7840.8	7584.4	7327.9	7073.3	6968.6	6598.8
10°	8470.5	8486.2	8496.6	8508.9	8468.7	8376.3	8133.8	7821.6	7488.4	7345.4	6801.2
12.5°	8651.9	8679.8	8728.6	8812.4	8878.7	8868.2	8692.0	8360.6	7964.6	7785.0	7054.1
15°	8758.3	8794.9	8871.7	9021.7	9208.3	9314.7	9267.6	8967.6	8526.3	8304.8	7362.8
17.5°	8824.6	8854.2	8972.8	9173.4	9450.8	9733.4	9857.2	9606.0	9161.2	8908.3	7716.9
20°	8869.9	8892.6	9040.9	9276.4	9635.7	10085.7	10431.1	10368.3	9860.7	9532.8	8086.7
22.5°	8971.1	8990.3	9131.6	9368.8	9766.5	10347.4	10984.1	11078.3	10598.6	10227.0	8482.7
25°	9253.7	9253.7	9372.3	9538.0	9911.3	10574.1	11451.5	11868.4	11352.1	10919.5	8849.0
27.5°	9792.7	9787.5	9831.1	9888.6	10171.2	10804.4	11868.4	12566.2	12133.6	11660.9	9204.8
30°	10431.1	10466.0	10471.2	10443.3	10575.9	11092.2	12253.9	13302.3	12920.3	12410.9	9569.4
32.5°	11252.7	11275.4	11249.2	11156.8	11137.6	11500.4	12632.5	14073.3	13771.5	13194.1	9902.6
35°	12295.8	12252.2	12170.2	11981.8	11802.2	12046.4	13065.1	14844.3	14727.4	14141.3	10361.3
37.5°	13413.9	13415.7	13314.5	12887.1	12639.4	12744.1	13661.6	15718.2	15883.9	15268.1	10949.2
40°	14310.5	14357.6	14420.4	13858.7	13537.8	13682.5	14420.4	16731.6	17251.5	16604.3	11714.9
42.5°	14936.7	14990.8	15168.7	14816.4	14483.2	14751.8	15313.5	17813.1	18786.5	18146.3	12611.5
45°	15599.6	15629.2	15754.8	15603.1	15390.2	15995.5	16320.0	18933.0	20410.4	19789.5	13614.5
47.5°	16297.3	16328.7	16457.8	16356.6	16245.0	17157.3	17370.1	19988.3	21966.4	21594.8	14685.5
50°	17159.0	17179.9	17302.0	17118.9	17153.8	18032.9	18308.5	20956.4	23597.3	23217.1	15760.0
52.5°	18334.7	18339.9	18509.1	18343.4	18179.4	18674.8	19116.1	21868.7	24875.9	24696.3	16834.6
55°	19255.7	19311.5	19866.2	19831.3	19737.1	19257.4	19791.2	22737.4	26016.7	26102.2	17975.4
57.5°	18667.9	18885.9	20009.2	20801.2	21572.2	20707.0	20703.5	23716.0	27077.3	27482.0	19229.5
60°	16349.6	16646.2	18301.5	20058.1	22470.5	23229.3	22597.8	24910.8	28148.3	28849.5	20801.2
62.5°	11676.6	12165.0	14408.2	17213.1	21239.0	24900.4	26452.8	26806.9	29604.8	30433.4	22843.8
65°	5902.8	6272.6	8153.0	11531.8	16968.9	23808.4	30642.7	30958.4	32135.8	32872.0	25988.8
67.5°	3586.3	3725.9	4643.4	6413.9	10403.2	18545.7	32010.3	37878.2	37033.9	37424.7	30473.5
70°	2642.7	2745.6	3317.7	4259.7	5983.1	10882.9	27813.4	42816.4	42261.7	42218.1	33787.7
72°	2058.3	2133.3	2639.2	3441.6	4374.8	6529.0	20159.3	40993.6	43758.3	43538.6	33484.2
72.5°	1951.9	2018.2	2478.7	3239.2	4134.1	5918.5	18125.4	39763.8	43650.2	43550.8	33091.7
75°	1536.8	1583.9	1835.0	2504.9	3235.7	3357.8	9932.2	30815.4	38722.4	40332.5	29763.6
77.5°	1271.6	1278.6	1411.2	1822.8	2522.3	2374.0	4878.9	21380.3	27727.9	29498.4	21083.8
80°	1036.1	1044.9	1107.7	1278.6	1908.3	1756.5	2316.5	12294.1	15524.6	15543.8	10026.4
82.5°	825.1	826.8	896.6	935.0	1371.0	1255.9	1327.4	5772.0	6783.7	6525.5	3603.8
85°	580.9	568.7	875.7	767.5	896.6	805.9	732.6	2285.1	2804.9	2682.8	1128.6
87.5°	193.6	200.6	389.0	497.1	523.3	457.0	326.2	875.7	1058.8	1050.1	357.6
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°	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5	6232.5
2.5°	6263.9	6208.1	6126.1	6035.4	5963.9	5890.6	5836.5	5808.6	5777.2	5751.1	5782.5
5°	6330.2	6225.5	6051.1	5880.1	5754.6	5642.9	5562.7	5520.8	5482.4	5456.3	5459.8
7.5°	6438.3	6269.1	5976.1	5726.6	5552.2	5431.9	5349.9	5322.0	5297.5	5290.6	5299.3
10°	6553.5	6304.0	5876.7	5545.2	5346.4	5247.0	5210.3	5229.5	5247.0	5262.7	5280.1
12.5°	6684.3	6335.4	5731.9	5332.4	5163.2	5124.9	5161.5	5245.2	5306.3	5342.9	5365.6
15°	6855.2	6363.3	5564.4	5119.6	5006.2	5049.8	5173.7	5318.5	5424.9	5492.9	5503.4
17.5°	7012.2	6361.6	5349.9	4905.1	4878.9	5006.2	5192.9	5397.0	5540.0	5635.9	5655.1
20°	7174.4	6314.5	5100.4	4695.7	4749.8	4959.1	5201.6	5447.6	5620.2	5731.9	5758.0
22.5°	7326.2	6232.5	4826.6	4505.6	4641.7	4896.3	5168.5	5417.9	5590.6	5681.3	5709.2
25°	7429.1	6089.5	4549.2	4345.1	4545.7	4819.6	5060.3	5260.9	5390.0	5435.3	5442.3
27.5°	7481.4	5902.8	4287.6	4205.6	4446.3	4694.0	4859.7	4959.1	4995.8	4992.3	4985.3
30°	7488.4	5656.9	4062.6	4092.2	4331.2	4509.1	4587.6	4568.4	4521.3	4441.1	4448.0
32.5°	7465.7	5379.5	3874.2	3984.1	4184.7	4284.1	4287.6	4195.1	4069.5	3942.2	3907.3
35°	7472.7	5107.4	3708.5	3862.0	4006.7	4050.3	4010.2	3874.2	3703.2	3539.3	3504.4
37.5°	7549.5	4870.2	3565.4	3720.7	3809.6	3820.1	3762.5	3619.5	3493.9	3333.4	3319.5
40°	7732.6	4701.0	3429.4	3561.9	3612.5	3617.7	3535.8	3434.6	3445.1	3359.6	3357.8
42.5°	8062.3	4627.7	3309.0	3396.2	3427.6	3438.1	3375.3	3310.7	3401.4	3345.6	3326.4
45°	8487.9	4645.2	3207.8	3234.0	3291.6	3340.4	3302.0	3223.5	3258.4	3016.0	2935.7
47.5°	8979.8	4756.8	3127.6	3094.4	3193.9	3286.3	3227.0	3108.4	2984.6	2743.8	2698.5
50°	9555.5	4929.5	3054.3	2956.6	3087.5	3213.1	3153.8	2984.6	2797.9	2681.0	2665.3
52.5°	10155.5	5140.5	2981.1	2804.9	2953.2	3157.2	3127.6	2956.6	2726.4	2611.3	2590.3
55°	10835.8	5353.4	2888.6	2628.7	2808.4	3131.1	3115.4	2855.5	2672.3	2607.8	2592.1
57.5°	11681.8	5595.8	2766.5	2445.6	2672.3	3036.9	2988.0	2794.4	2616.5	2567.7	2562.4
60°	12784.2	5953.4	2590.3	2250.2	2506.6	2892.1	2881.6	2705.5	2527.5	2492.7	2485.7
62.5°	14437.8	6544.7	2347.9	2054.8	2321.7	2646.2	2742.1	2585.1	2433.3	2431.6	2435.1
65°	17002.0	7434.3	2084.5	1883.9	2135.1	2438.6	2579.9	2461.3	2337.4	2372.3	2377.5
67.5°	19974.4	8172.2	1826.3	1716.4	1944.9	2241.5	2433.3	2337.4	2210.1	2300.8	2302.5
70°	20963.4	7512.8	1599.6	1550.7	1747.8	2051.3	2274.6	2201.3	2072.3	2163.0	2154.3
72°	19508.6	6065.0	1453.0	1425.1	1599.6	1894.3	2133.3	2074.0	1946.7	2007.7	1985.1
72.5°	19049.9	5782.5	1416.4	1393.7	1559.4	1854.2	2096.7	2042.6	1915.3	1967.6	1946.7
75°	16993.3	5021.9	1217.5	1222.8	1360.6	1658.9	1890.9	1873.4	1742.6	1747.8	1740.8
77.5°	12325.5	3682.3	1025.7	1060.6	1158.2	1458.3	1683.3	1672.8	1529.8	1503.6	1498.4
80°	5719.7	1878.6	835.5	851.2	952.4	1219.3	1435.6	1421.6	1306.5	1273.4	1254.2
82.5°	1958.9	893.1	628.0	638.4	737.9	982.1	1245.5	1236.7	1140.8	1076.3	1036.1
85°	699.5	444.8	439.6	429.1	526.8	772.7	1085.0	1037.9	896.6	764.0	760.5
87.5°	226.8	190.1	226.8	225.0	307.0	523.3	788.4	671.6	650.6	540.7	530.3
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)