

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: P318124

Luminaire Tested: **GAN-SA0B-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318124
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-SA0B-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55507 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

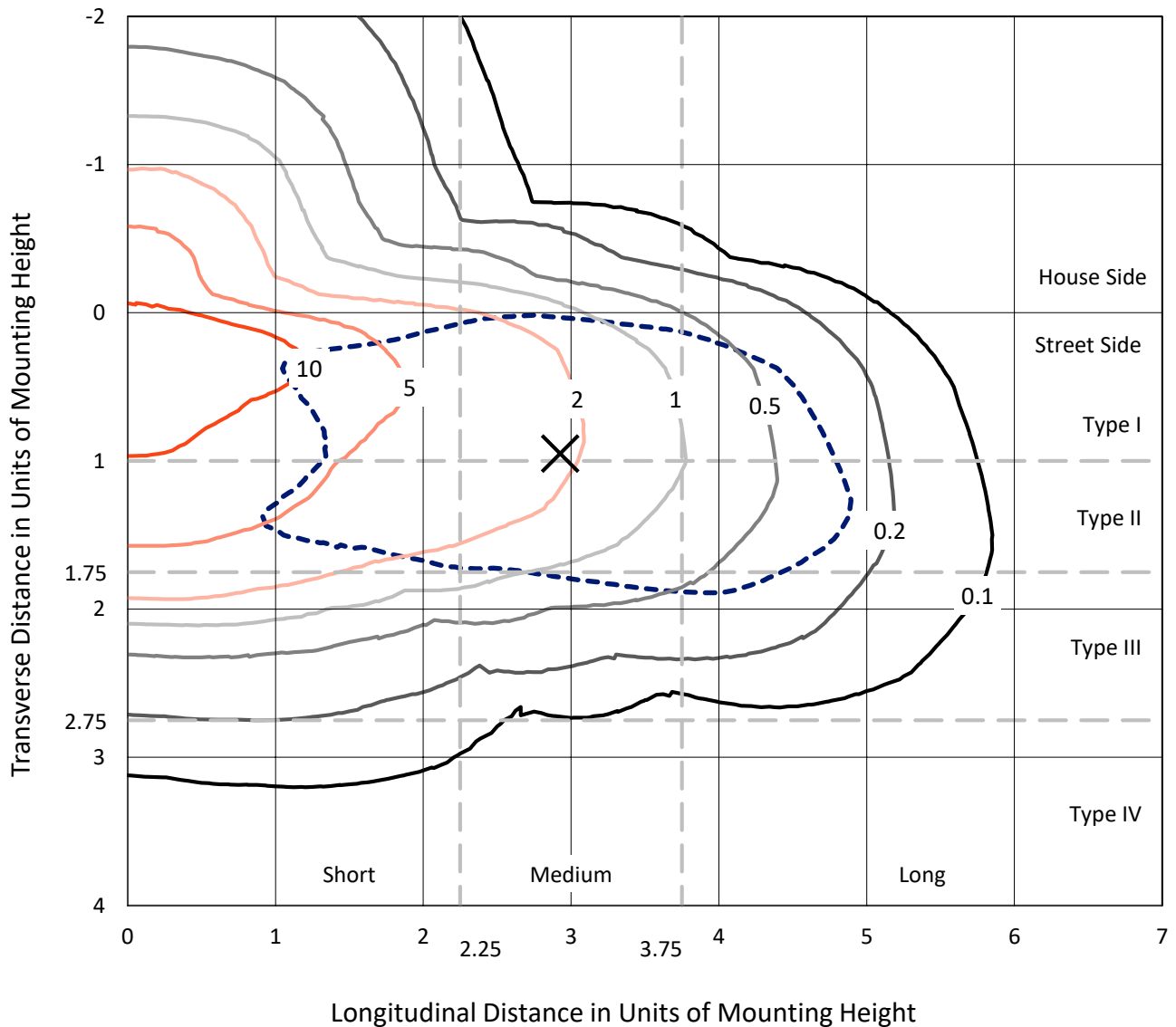
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

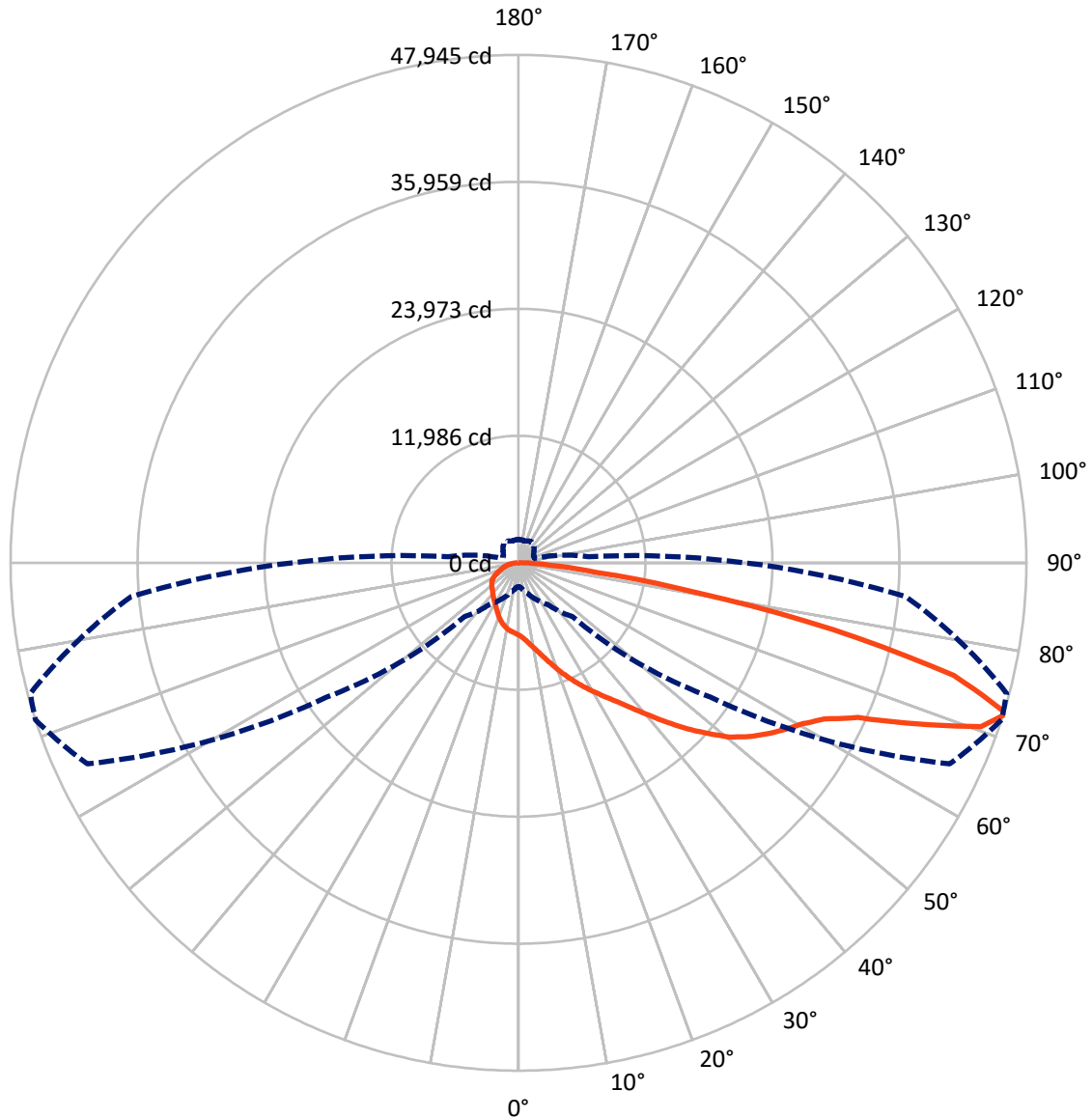
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	10296.9	0.0	10296.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45210.1	0.0	45210.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	55507.0	0.0	55507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.3	1.2
10°-20°	2211.2	4.0
20°-30°	3874.8	7.0
30°-40°	5745.0	10.4
40°-50°	8402.6	15.1
50°-60°	11561.9	20.8
60°-70°	12871.8	23.2
70°-80°	8721.9	15.7
80°-90°	1433.5	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°	55507.0	100.0
0°-180°	55507.0	100.0

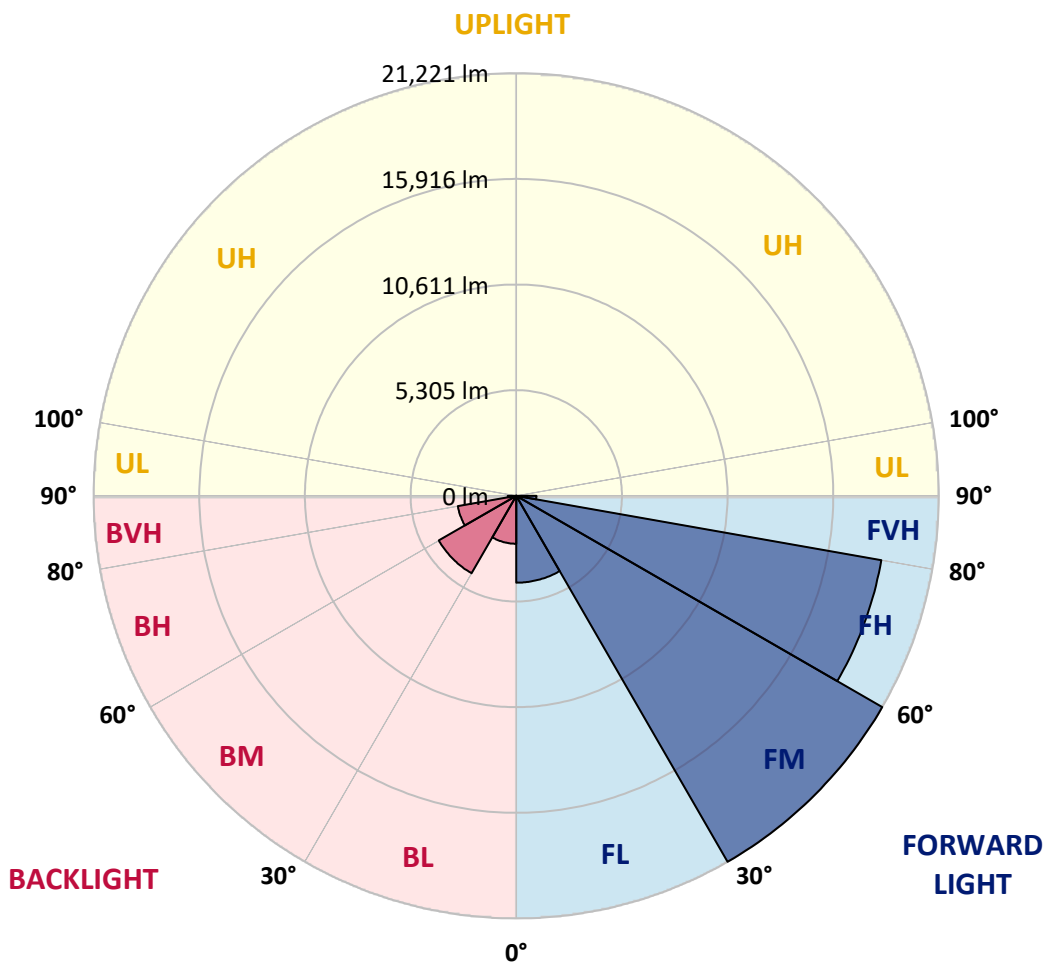


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4363.2	7.9			
FM (30°-60°)	21221.0	38.2			
FH (60°-80°)	18614.7	33.5			G5
FVH (80°-90°)	1011.2	1.8			G5
BL (0°-30°)	2407.0	4.3	B3/2500		
BM (30°-60°)	4488.5	8.1	B3/5000		
BH (60°-80°)	2979.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	422.3	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°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	7543.6	7532.1	7492.0	7492.0	7415.6	7350.6	7228.3	7146.1	7048.6	7014.2	6899.5
5°	8273.7	8277.5	8227.8	8193.4	8080.7	7943.1	7734.7	7545.5	7356.3	7279.9	7044.8
7.5°	8887.2	8879.6	8866.2	8837.5	8732.4	8591.0	8310.0	8029.1	7750.0	7635.3	7230.2
10°	9280.9	9298.1	9309.6	9323.0	9279.0	9177.7	8912.0	8569.9	8204.9	8048.2	7451.9
12.5°	9479.7	9510.3	9563.8	9655.5	9728.1	9716.7	9523.6	9160.5	8726.7	8529.8	7729.0
15°	9596.3	9636.4	9720.5	9884.9	10089.4	10205.9	10154.3	9825.6	9342.1	9099.3	8067.3
17.5°	9668.9	9701.4	9831.3	10051.1	10355.0	10664.6	10800.3	10525.1	10037.8	9760.6	8455.3
20°	9718.6	9743.4	9905.9	10163.9	10557.6	11050.7	11429.1	11360.3	10804.2	10444.8	8860.4
22.5°	9829.4	9850.5	10005.3	10265.2	10701.0	11337.4	12035.0	12138.2	11612.6	11205.5	9294.3
25°	10139.1	10139.1	10269.0	10450.6	10859.6	11585.8	12547.2	13004.0	12438.3	11964.3	9695.6
27.5°	10729.6	10723.9	10771.7	10834.7	11144.4	11838.1	13004.0	13768.5	13294.5	12776.5	10085.5
30°	11429.1	11467.4	11473.1	11442.5	11587.8	12153.5	13426.4	14575.0	14156.4	13598.4	10485.0
32.5°	12329.3	12354.2	12325.5	12224.2	12203.2	12600.7	13841.1	15419.8	15089.1	14456.5	10850.0
35°	13472.2	13424.4	13334.6	13128.2	12931.4	13198.9	14315.1	16264.5	16136.5	15494.3	11352.7
37.5°	14697.3	14699.2	14588.4	14120.1	13848.7	13963.4	14968.7	17222.1	17403.6	16729.0	11996.8
40°	15679.7	15731.3	15800.1	15184.7	14833.0	14991.7	15800.1	18332.5	18902.0	18193.0	12835.8
42.5°	16365.8	16425.1	16620.0	16234.0	15868.9	16163.2	16778.6	19517.4	20583.9	19882.5	13818.2
45°	17092.1	17124.6	17262.2	17095.9	16862.7	17525.9	17881.4	20744.4	22363.3	21682.9	14917.1
47.5°	17856.6	17891.0	18032.4	17921.6	17799.2	18798.8	19032.0	21900.7	24068.1	23661.0	16090.6
50°	18800.7	18823.7	18957.4	18756.8	18795.0	19758.3	20060.2	22961.5	25855.1	25438.4	17267.9
52.5°	20088.9	20094.6	20280.0	20098.4	19918.8	20461.6	20945.1	23961.0	27256.0	27059.1	18445.2
55°	21098.0	21159.2	21766.9	21728.7	21625.5	21099.9	21684.8	24912.8	28505.9	28599.6	19695.2
57.5°	20453.9	20692.8	21923.7	22791.4	23636.1	22688.2	22684.3	25985.0	29668.0	30111.4	21069.4
60°	17913.9	18238.8	20052.6	21977.2	24620.4	25451.8	24759.9	27294.2	30841.4	31609.8	22791.4
62.5°	12793.7	13328.9	15786.7	18860.0	23271.1	27282.7	28983.7	29371.7	32437.3	33345.2	25029.4
65°	6467.6	6872.8	8933.1	12635.1	18592.4	26086.3	33574.5	33920.4	35210.5	36017.0	28475.4
67.5°	3929.5	4082.4	5087.7	7027.6	11398.5	20320.2	35072.9	41502.3	40577.2	41005.3	33389.1
70°	2895.5	3008.3	3635.2	4667.2	6555.5	11924.1	30474.5	46912.9	46305.2	46257.4	37020.4
72°	2255.2	2337.4	2891.7	3770.8	4793.4	7153.7	22088.0	44915.7	47945.0	47704.2	36687.9
72.5°	2138.7	2211.3	2715.9	3549.1	4529.6	6484.8	19859.5	43568.3	47826.5	47717.6	36257.9
75°	1683.8	1735.4	2010.6	2744.5	3545.3	3679.1	10882.5	33763.7	42427.3	44191.4	32611.2
77.5°	1393.3	1400.9	1546.2	1997.2	2763.6	2601.2	5345.7	23425.9	30380.8	32320.7	23101.0
80°	1135.3	1144.8	1213.6	1400.9	2090.9	1924.6	2538.1	13470.3	17009.9	17030.9	10985.7
82.5°	904.0	905.9	982.4	1024.4	1502.2	1376.1	1454.4	6324.2	7432.8	7149.9	3948.6
85°	636.4	623.1	959.4	840.9	982.4	883.0	802.7	2503.7	3073.3	2939.5	1236.6
87.5°	212.1	219.8	426.2	544.7	573.4	500.7	357.4	959.4	1160.1	1150.6	391.8
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°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	6863.2	6802.1	6712.2	6612.8	6534.5	6454.2	6395.0	6364.4	6330.0	6301.3	6335.7
5°	6935.8	6821.2	6630.0	6442.7	6305.1	6182.8	6094.9	6049.0	6007.0	5978.3	5982.1
7.5°	7054.3	6868.9	6547.9	6274.6	6083.4	5951.6	5861.7	5831.1	5804.4	5796.7	5806.3
10°	7180.5	6907.2	6438.9	6075.8	5857.9	5749.0	5708.8	5729.9	5749.0	5766.2	5785.3
12.5°	7323.8	6941.6	6280.3	5842.6	5657.2	5615.2	5655.3	5747.1	5813.9	5854.1	5878.9
15°	7511.1	6972.2	6096.8	5609.4	5485.2	5533.0	5668.7	5827.3	5943.9	6018.4	6029.9
17.5°	7683.1	6970.2	5861.7	5374.4	5345.7	5485.2	5689.7	5913.3	6070.1	6175.2	6196.2
20°	7860.9	6918.6	5588.4	5145.0	5204.3	5433.6	5699.3	5968.8	6158.0	6280.3	6309.0
22.5°	8027.1	6828.8	5288.4	4936.7	5085.8	5364.8	5663.0	5936.3	6125.5	6224.9	6255.4
25°	8139.9	6672.1	4984.5	4760.9	4980.7	5280.7	5544.5	5764.3	5905.7	5955.4	5963.0
27.5°	8197.2	6467.6	4697.8	4608.0	4871.7	5143.1	5324.7	5433.6	5473.8	5469.9	5462.3
30°	8204.9	6198.1	4451.2	4483.7	4745.6	4940.5	5026.5	5005.5	4953.9	4866.0	4873.6
32.5°	8180.0	5894.2	4244.8	4365.2	4585.0	4694.0	4697.8	4596.5	4458.9	4319.4	4281.1
35°	8187.7	5596.1	4063.3	4231.5	4390.1	4437.9	4393.9	4244.8	4057.5	3877.9	3839.7
37.5°	8271.8	5336.1	3906.5	4076.6	4174.1	4185.6	4122.5	3965.8	3828.2	3652.4	3637.1
40°	8472.5	5150.8	3757.5	3902.7	3958.1	3963.9	3874.1	3763.2	3774.7	3681.0	3679.1
42.5°	8833.7	5070.5	3625.6	3721.2	3755.6	3767.0	3698.2	3627.5	3726.9	3665.7	3644.7
45°	9300.0	5089.6	3514.7	3543.4	3606.5	3660.0	3618.0	3531.9	3570.2	3304.5	3216.6
47.5°	9839.0	5211.9	3426.8	3390.5	3499.5	3600.7	3535.8	3405.8	3270.1	3006.4	2956.7
50°	10469.7	5401.1	3346.6	3239.5	3382.9	3520.5	3455.5	3270.1	3065.6	2937.6	2920.4
52.5°	11127.2	5632.4	3266.3	3073.3	3235.7	3459.3	3426.8	3239.5	2987.2	2861.1	2838.2
55°	11872.5	5865.6	3165.0	2880.2	3077.1	3430.6	3413.4	3128.7	2928.0	2857.3	2840.1
57.5°	12799.5	6131.2	3031.2	2679.5	2928.0	3327.4	3273.9	3061.8	2866.8	2813.3	2807.6
60°	14007.4	6523.0	2838.2	2465.5	2746.4	3168.8	3157.3	2964.3	2769.4	2731.1	2723.5
62.5°	15819.2	7170.9	2572.5	2251.4	2543.8	2899.3	3004.4	2832.4	2666.2	2664.2	2668.1
65°	18628.7	8145.6	2283.9	2064.1	2339.3	2671.9	2826.7	2696.7	2561.0	2599.3	2605.0
67.5°	21885.4	8954.1	2001.1	1880.6	2131.0	2455.9	2666.2	2561.0	2421.5	2520.9	2522.8
70°	22969.1	8231.6	1752.6	1699.1	1915.0	2247.6	2492.2	2412.0	2270.5	2369.9	2360.4
72°	21375.1	6645.3	1592.1	1561.5	1752.6	2075.6	2337.4	2272.4	2132.9	2199.8	2175.0
72.5°	20872.5	6335.7	1551.9	1527.1	1708.6	2031.6	2297.3	2238.0	2098.5	2155.9	2132.9
75°	18619.2	5502.4	1334.0	1339.8	1490.8	1817.6	2071.8	2052.7	1909.3	1915.0	1907.4
77.5°	13504.7	4034.6	1123.8	1162.0	1269.1	1597.8	1844.3	1832.9	1676.1	1647.5	1641.7
80°	6266.9	2058.4	915.5	932.7	1043.5	1335.9	1572.9	1557.6	1431.5	1395.2	1374.2
82.5°	2146.3	978.5	688.0	699.5	808.4	1076.0	1364.6	1355.1	1249.9	1179.2	1135.3
85°	766.4	487.4	481.6	470.2	577.2	846.7	1188.8	1137.2	982.4	837.1	833.3
87.5°	248.5	208.3	248.5	246.5	336.4	573.4	863.9	735.8	712.9	592.5	581.0
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)