

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: P191527

Luminaire Tested: **GAN-AF-09-LED-U-T4FT-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 44244.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

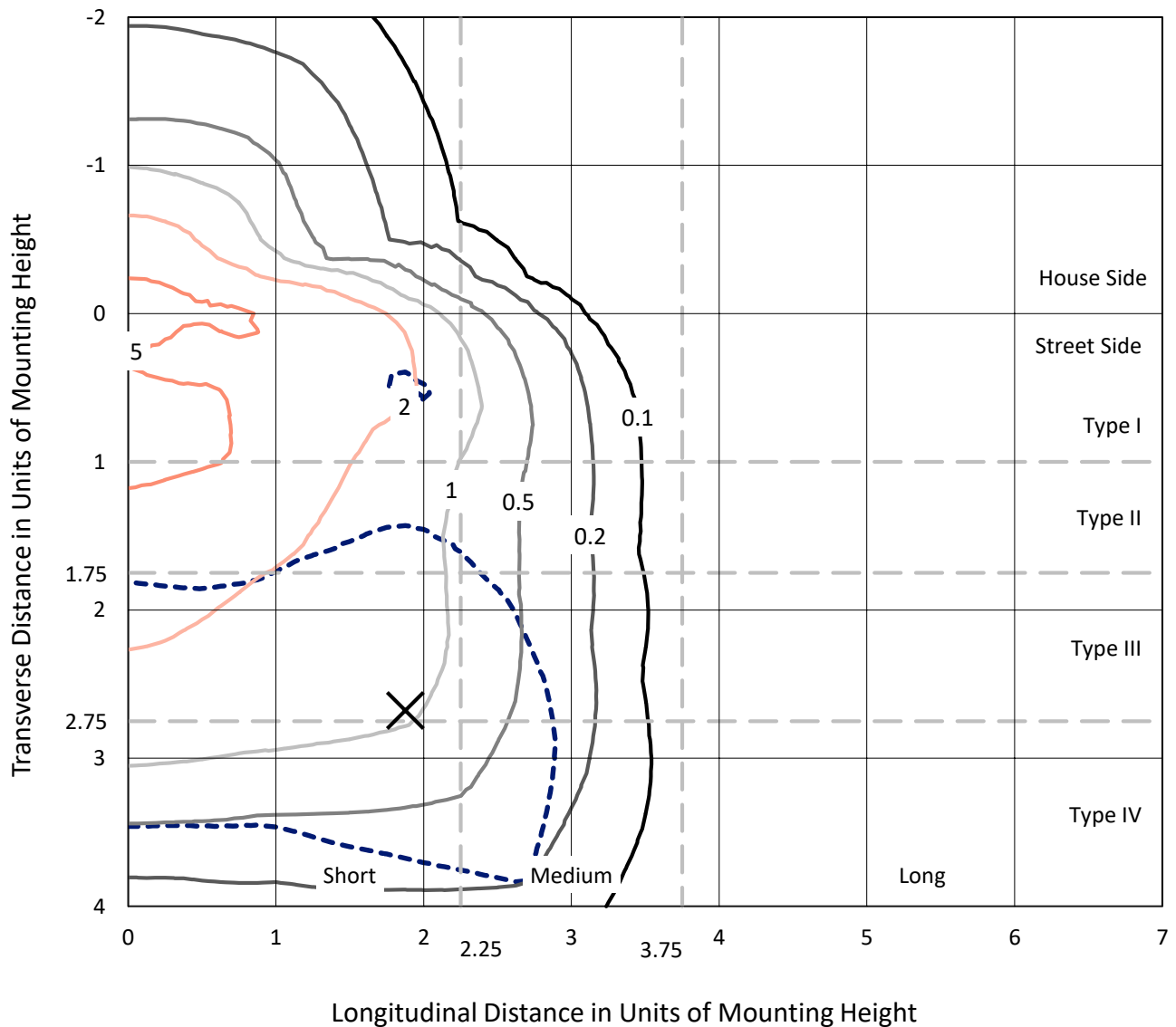
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

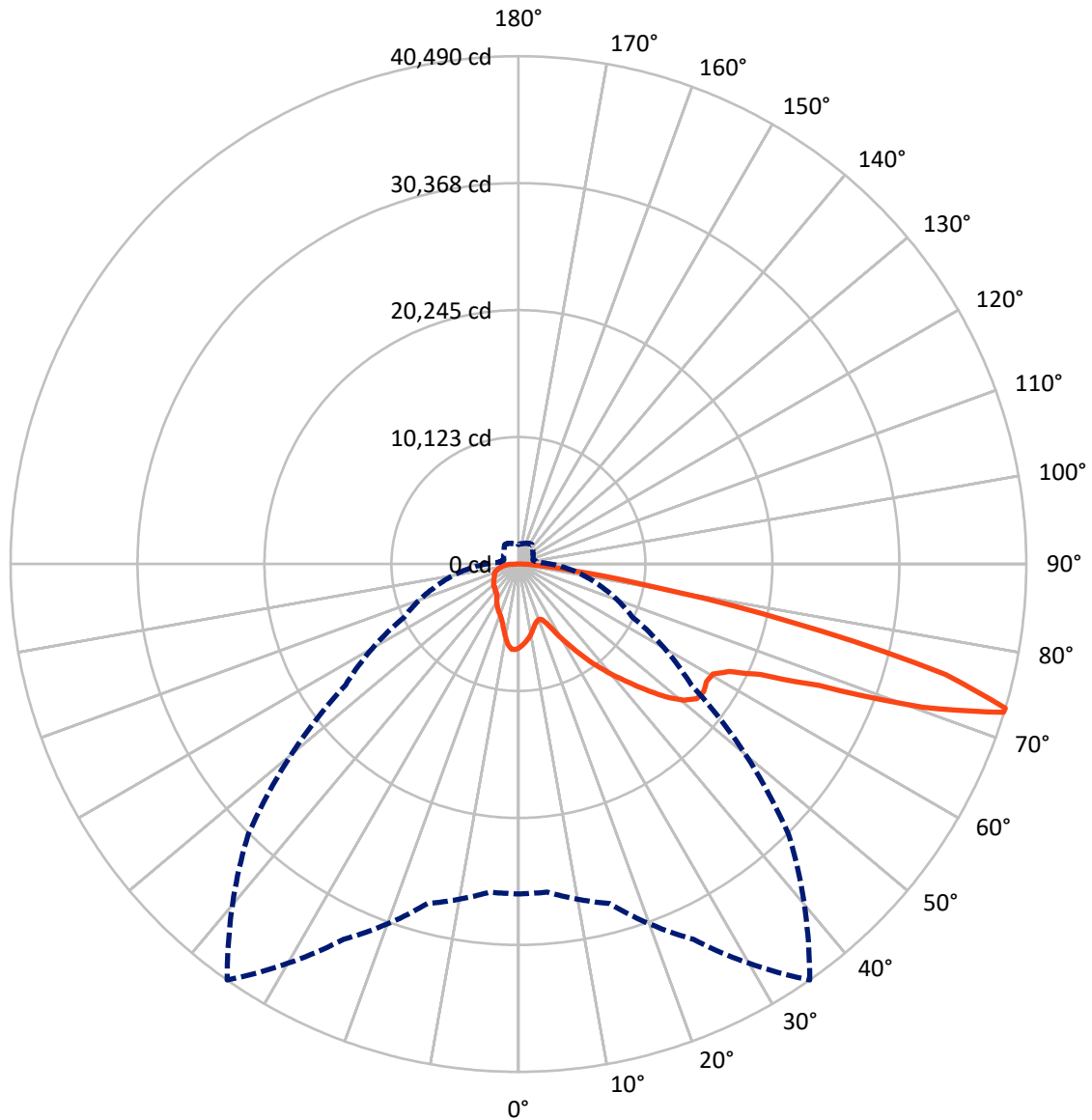
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8438.7	0.0	8438.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35806.0	0.0	35806.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	44244.7	0.0	44244.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.5	1.4
10°-20°	1508.8	3.4
20°-30°	2439.3	5.5
30°-40°	4090.3	9.2
40°-50°	6305.0	14.3
50°-60°	8458.9	19.1
60°-70°	11268.9	25.5
70°-80°	8594.8	19.4
80°-90°	974.2	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°	44244.7	100.0
0°-180°	44244.7	100.0

Coefficient of Utilization



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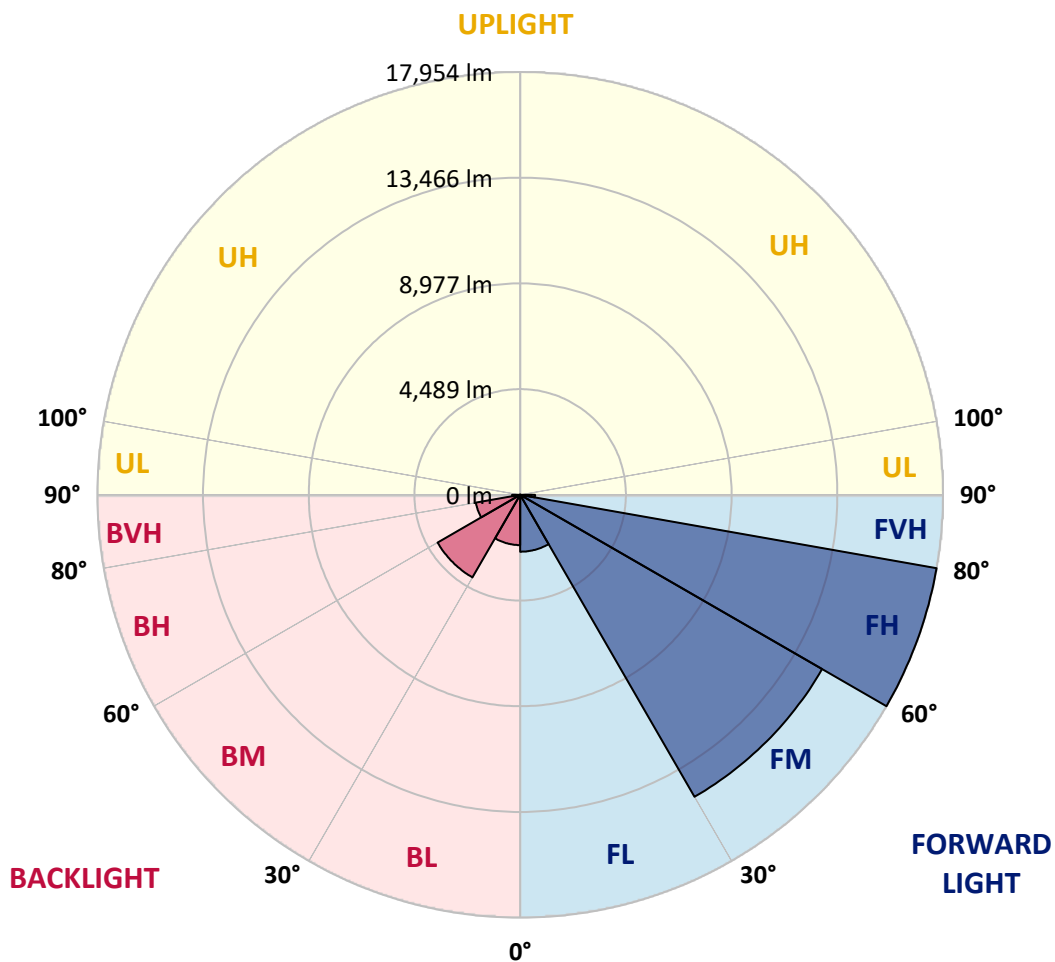
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2417.3	5.5			
FM	(30°-60°)	14804.5	33.5			
FH	(60°-80°)	17954.5	40.6			G5
FVH	(80°-90°)	629.7	1.4			G4/750
BL	(0°-30°)	2135.4	4.8	B3/2500		
BM	(30°-60°)	4049.6	9.2	B3/5000		
BH	(60°-80°)	1909.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	344.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9
2.5°	6414.4	6427.2	6412.3	6431.4	6463.3	6497.3	6520.7	6554.7	6592.9	6646.0	6658.8
5°	6112.7	6131.9	6131.9	6165.8	6227.4	6282.7	6333.7	6388.9	6469.7	6561.0	6597.1
7.5°	5781.3	5791.9	5811.0	5862.0	5951.2	6029.9	6102.1	6191.3	6301.8	6422.9	6486.6
10°	5381.8	5396.7	5426.4	5498.7	5619.8	5728.1	5832.3	5955.5	6095.8	6246.5	6327.4
12.5°	5099.2	5095.0	5107.8	5160.9	5267.1	5398.8	5549.7	5706.9	5879.0	6055.4	6153.0
15°	5003.7	4980.2	4931.4	4918.7	4976.0	5107.8	5282.0	5475.3	5681.4	5893.9	6015.0
17.5°	5063.1	5022.8	4888.9	4791.2	4782.7	4882.5	5067.4	5284.1	5522.1	5781.3	5932.1
20°	5437.1	5341.4	5012.2	4784.8	4706.2	4755.1	4916.5	5146.0	5426.4	5770.7	5964.0
22.5°	6331.6	6191.3	5492.3	5069.5	4803.9	4744.4	4865.6	5109.8	5437.1	5902.4	6148.9
25°	7634.0	7434.3	6316.7	5779.2	5231.0	4914.4	4942.0	5192.7	5588.0	6208.3	6505.8
27.5°	8662.3	8532.7	7393.9	6779.9	6008.6	5373.4	5190.7	5401.0	5896.0	6709.7	7013.6
30°	9274.3	9195.6	8545.5	7914.5	7000.9	6104.3	5666.5	5791.9	6378.3	7404.5	7655.3
32.5°	9983.9	9937.1	9618.5	9038.4	8071.7	7064.6	6420.9	6376.2	7024.2	8239.6	8354.2
35°	10719.1	10704.2	10517.2	10100.7	9221.2	8330.9	7421.5	7119.8	7727.5	9106.4	9034.2
37.5°	11403.2	11377.7	11269.3	11027.1	10423.8	9690.7	8441.4	7882.6	8486.0	9935.0	9614.2
40°	12663.1	12463.4	12091.6	11908.9	11639.0	10835.9	9250.9	8594.3	9272.1	10725.4	10115.7
42.5°	14199.3	13874.2	13181.5	12930.8	12892.7	11738.9	9803.3	9284.9	10064.6	11509.4	10608.6
45°	15408.2	15102.3	14505.2	14188.6	14328.9	12556.9	10357.9	10022.2	10880.5	12331.7	11116.4
47.5°	16697.9	16217.8	15427.3	15523.0	15828.9	13330.3	10923.1	10814.6	11775.0	13251.7	11747.4
50°	16744.7	16377.1	16030.8	16602.3	17078.3	14042.0	11630.5	11645.4	12869.2	14409.6	12586.7
52.5°	15773.7	15695.0	16245.4	17144.1	17830.3	14605.1	12435.8	12503.8	14269.4	15739.7	13508.8
55°	15433.8	15344.5	15979.8	16955.0	17932.3	15070.4	13309.0	13432.3	15962.7	17142.0	14407.5
57.5°	16262.4	16064.7	16107.3	16865.8	17683.8	15580.4	14261.0	14509.5	17802.7	18367.9	14985.4
60°	18578.3	18155.4	17352.3	17333.2	17817.7	16345.2	15361.4	15665.4	19715.0	18954.4	14760.3
62.5°	21826.9	21404.1	19899.9	18920.4	18848.1	17607.3	16712.8	16793.6	20819.8	18159.7	13385.5
65°	25343.3	24965.1	23284.5	21901.3	21234.1	19697.9	18282.9	17297.1	20458.6	15973.4	10980.4
67.5°	29611.8	29206.0	27761.1	26484.2	25842.6	23071.9	19385.6	16814.8	18166.1	12374.2	7893.2
70°	32596.9	32182.6	31613.3	32648.0	34218.1	27939.7	19528.0	14853.7	13568.2	8224.6	4750.8
72.5°	28702.4	28509.0	29548.0	33905.8	40445.5	30893.0	17651.9	10814.6	7880.5	4366.3	2749.4
73°	26297.3	26254.7	28026.8	33024.0	40490.1	30438.3	16829.7	10051.9	6758.6	3862.7	2513.5
75°	11874.9	12217.0	16100.8	25224.3	35178.5	25081.9	11845.2	5766.4	3818.1	2668.6	1897.4
77.5°	2853.4	2972.4	5037.6	11979.0	22215.7	14947.2	5366.9	2851.4	2441.3	1884.6	1385.3
80°	1215.4	1255.7	1939.8	4425.7	10459.9	6019.2	2473.2	1910.1	1689.1	1315.2	971.0
82.5°	675.7	718.1	1100.6	2007.8	4221.7	2052.4	1508.5	1330.0	1111.2	792.5	631.1
85°	382.5	405.8	643.7	1121.9	1788.9	824.4	903.0	883.8	626.8	408.0	310.2
87.5°	180.6	195.5	310.2	520.6	701.1	322.9	458.9	505.6	393.0	248.6	161.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9	6677.9
2.5°	6673.6	6711.9	6756.5	6779.9	6801.1	6826.7	6852.1	6852.1	6856.3	6858.5
5°	6626.9	6705.5	6775.6	6805.4	6811.7	6811.7	6805.4	6771.4	6741.7	6754.3
7.5°	6529.2	6643.9	6703.4	6692.8	6612.0	6518.5	6439.9	6344.3	6295.4	6287.0
10°	6388.9	6520.7	6531.3	6425.1	6225.4	6025.6	5859.9	5698.4	5621.9	5602.8
12.5°	6233.9	6355.0	6287.0	6068.1	5747.2	5456.2	5245.9	5082.2	5010.0	4990.9
15°	6108.4	6191.3	6019.2	5675.0	5271.4	4963.3	4789.0	4667.9	4617.0	4602.1
17.5°	6042.6	6059.7	5745.2	5279.9	4850.6	4593.6	4485.2	4427.8	4408.7	4398.1
20°	6074.5	5955.5	5483.8	4912.3	4506.5	4325.9	4300.4	4285.4	4281.3	4274.9
22.5°	6233.9	5923.6	5243.7	4563.8	4204.7	4126.2	4147.3	4145.3	4141.0	4136.8
25°	6518.5	5951.2	5010.0	4232.4	3952.0	3934.9	3973.1	3973.1	3956.2	3956.2
27.5°	6894.6	6008.6	4748.6	3917.9	3722.4	3724.6	3754.3	3745.8	3726.7	3713.9
30°	7353.6	6044.7	4442.7	3635.4	3507.9	3499.4	3507.9	3471.7	3414.4	3410.1
32.5°	7823.1	6000.1	4087.9	3384.6	3280.5	3261.4	3255.0	3204.0	3138.2	3119.1
35°	8248.1	5836.5	3726.7	3185.0	3063.8	3021.3	3051.1	3034.1	2974.5	2959.7
37.5°	8558.2	5532.7	3401.6	3008.6	2908.7	2898.1	2917.1	2923.6	2853.4	2838.6
40°	8766.5	5120.5	3123.3	2859.9	2879.0	2838.6	2774.9	2730.3	2709.0	2702.6
42.5°	8934.4	4691.4	2889.5	2789.7	2885.3	2768.5	2630.3	2558.1	2596.4	2613.3
45°	9127.7	4272.8	2694.1	2702.6	2853.4	2687.7	2530.5	2460.4	2475.2	2479.5
47.5°	9393.2	3762.8	2483.7	2562.4	2747.2	2632.5	2468.9	2369.1	2298.9	2267.1
50°	9760.8	3159.4	2264.9	2405.2	2643.1	2592.2	2373.2	2267.1	2137.5	2107.7
52.5°	10015.8	2596.4	2084.4	2273.4	2549.6	2511.3	2296.8	2158.7	2022.7	1997.2
55°	9877.7	2156.6	1927.1	2126.8	2426.4	2411.5	2233.0	2048.2	1942.0	1920.7
57.5°	9187.1	1878.2	1806.0	1988.7	2275.6	2326.5	2148.1	1954.8	1878.2	1863.3
60°	7869.9	1704.0	1729.5	1895.2	2152.3	2241.6	2063.1	1903.7	1852.8	1842.1
62.5°	6106.4	1587.1	1672.1	1827.2	2056.7	2182.1	2016.3	1897.4	1878.2	1865.5
65°	4374.8	1493.6	1610.5	1759.3	1969.6	2126.8	1999.4	1888.9	1893.1	1882.4
67.5°	2972.4	1410.8	1536.2	1682.8	1884.6	2077.9	1975.9	1859.1	1912.2	1899.5
70°	2080.1	1330.0	1449.0	1585.1	1778.4	2010.0	1933.5	1814.5	1810.2	1759.3
72.5°	1623.2	1223.9	1330.0	1449.0	1642.3	1914.4	1848.5	1714.7	1644.5	1591.4
73°	1548.8	1198.3	1300.3	1419.2	1612.7	1890.9	1825.1	1687.1	1608.4	1559.5
75°	1281.1	1087.8	1181.3	1287.6	1485.1	1780.4	1710.4	1561.6	1461.8	1432.0
77.5°	1007.1	930.6	1019.9	1115.4	1308.8	1619.0	1540.4	1398.1	1342.8	1317.4
80°	745.7	771.3	849.9	934.9	1134.6	1446.9	1376.8	1234.4	1480.9	1419.2
82.5°	524.8	584.3	656.5	733.0	951.9	1279.1	1194.1	1047.5	1083.6	900.9
85°	310.2	382.5	450.4	516.3	686.3	1060.2	985.8	835.0	684.1	652.2
87.5°	180.6	212.5	231.6	299.6	471.7	798.9	694.8	618.3	354.9	240.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)