

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: P478292

Luminaire Tested: **IFLD-S-SA6E-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478292
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

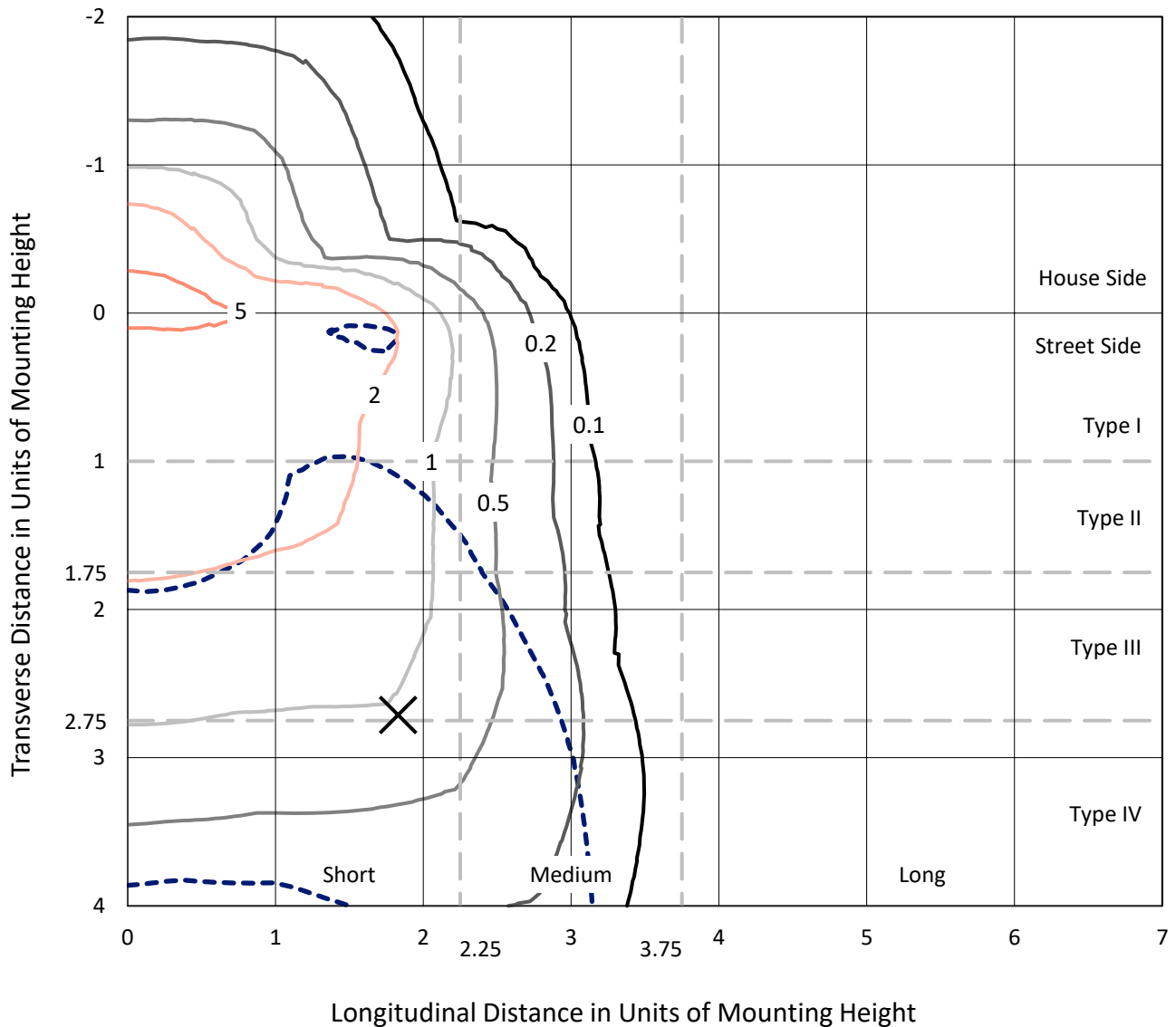
Lumens per Lamp: N/A
Luminaire Lumens: 39849 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
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

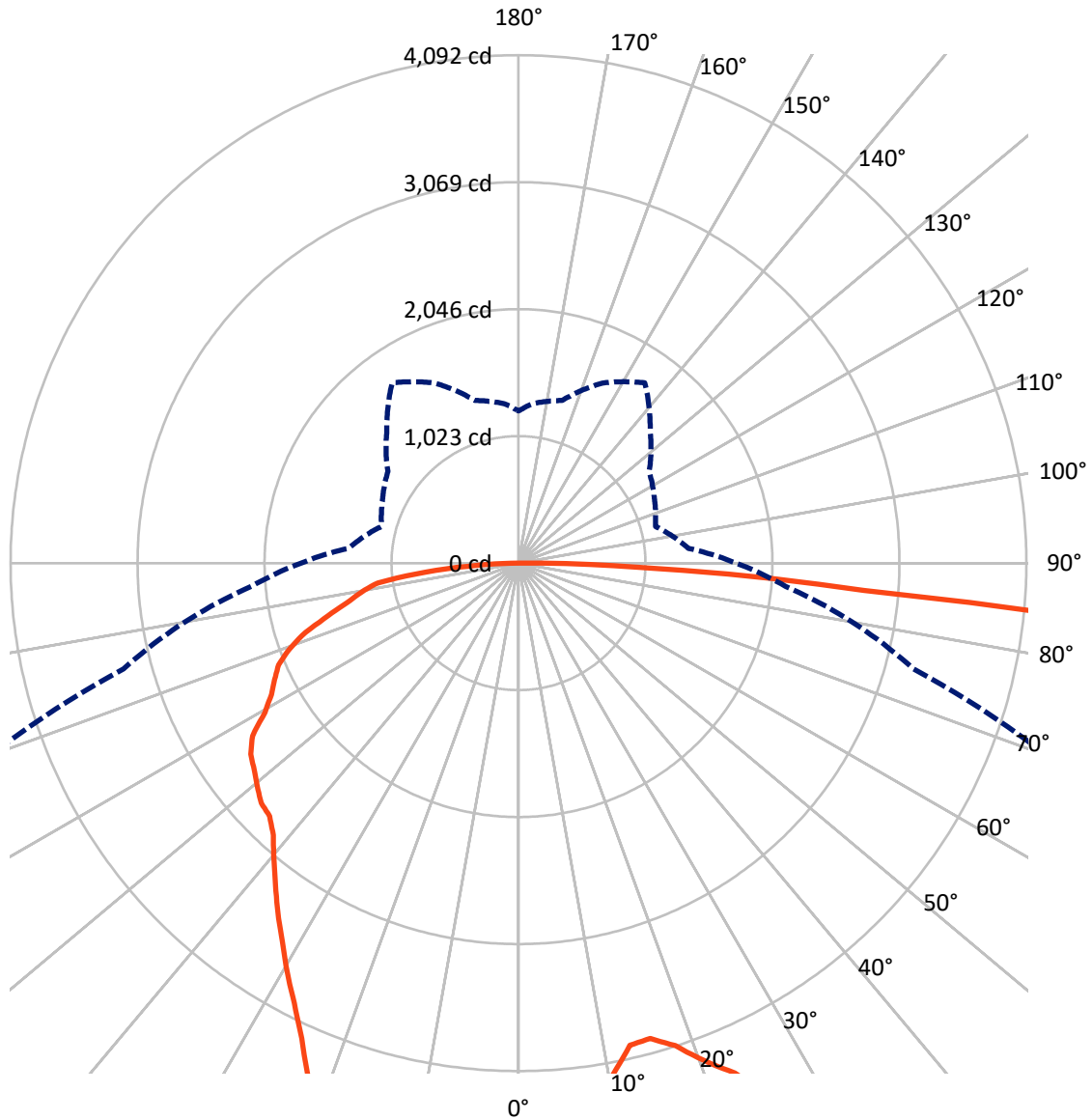
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8607.9	0.0	8607.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	31241.1	0.0	31241.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	39849.0	0.0	39849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.3	1.3
10°-20°	1475.6	3.7
20°-30°	2428.7	6.1
30°-40°	3632.1	9.1
40°-50°	5384.4	13.5
50°-60°	7759.5	19.5
60°-70°	9902.1	24.8
70°-80°	7705.5	19.3
80°-90°	1033.7	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°	39849.0	100.0
0°-180°	39849.0	100.0

Coefficient of Utilization



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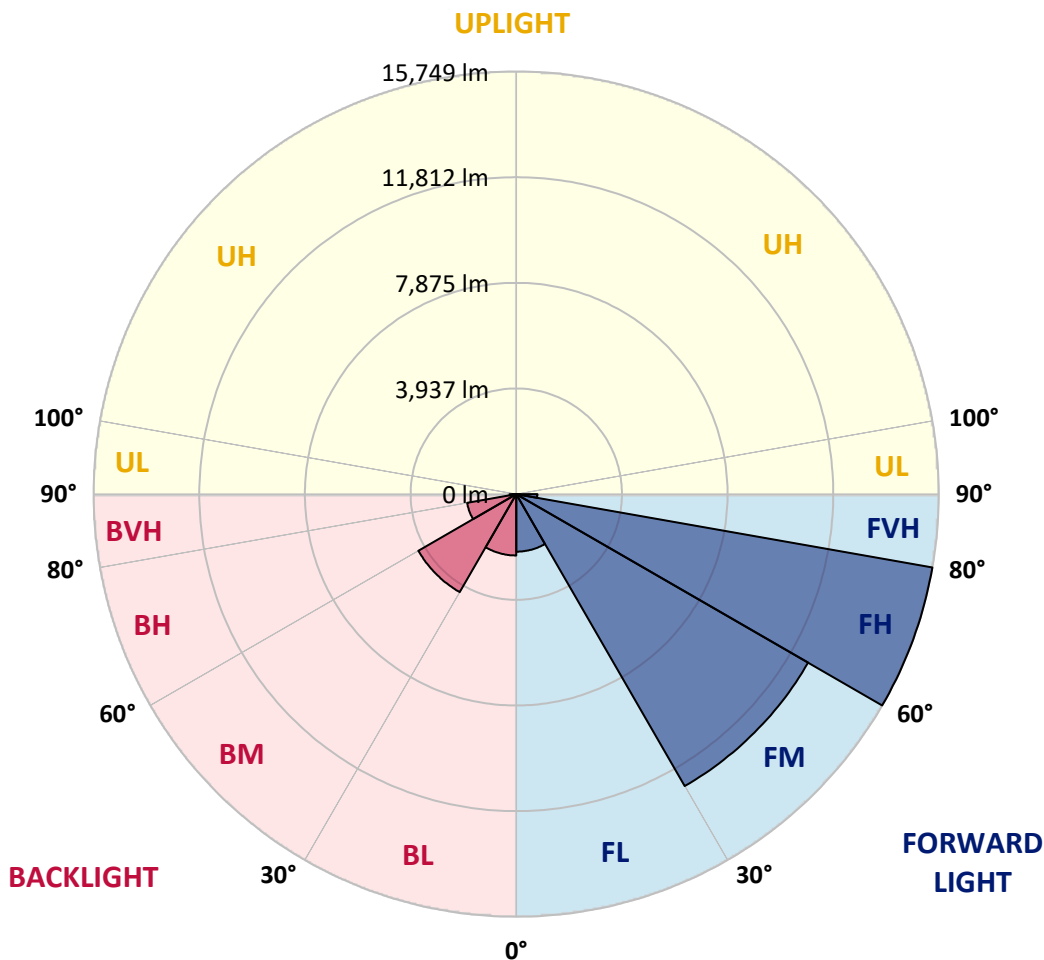
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.6	5.4			
FM (30°-60°)	12560.6	31.5			
FH (60°-80°)	15749.0	39.5			G5
FVH (80°-90°)	786.9	2.0			G5
BL (0°-30°)	2287.1	5.7	B3/2500		
BM (30°-60°)	4215.3	10.6	B3/5000		
BH (60°-80°)	1858.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	246.9	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0
2.5°	5118.9	5135.8	5190.5	5203.2	5262.2	5228.5	5300.1	5426.5	5498.1	5603.4	5729.8
5°	4714.5	4642.8	4676.5	4807.2	4874.6	4891.4	4967.3	5182.1	5316.9	5472.8	5708.8
7.5°	4238.4	4225.7	4293.2	4377.4	4512.2	4524.9	4693.4	4883.0	5161.1	5506.5	5784.6
10°	3914.0	3968.7	4006.7	4095.1	4187.8	4187.8	4402.7	4731.3	5047.3	5380.1	5801.4
12.5°	3897.1	3863.4	3871.8	3918.2	3985.6	4069.9	4272.1	4567.0	4967.3	5354.9	5873.1
15°	3951.9	3964.5	3888.7	3947.7	3973.0	4002.5	4225.7	4558.6	4916.7	5443.3	5995.3
17.5°	4242.6	4171.0	4053.0	3998.2	4086.7	4086.7	4238.4	4499.6	4925.1	5489.7	6172.2
20°	4470.1	4470.1	4276.3	4217.3	4280.5	4267.9	4373.2	4567.0	4967.3	5582.4	6370.2
22.5°	4853.5	4908.3	4588.1	4465.9	4461.7	4495.4	4588.1	4752.4	5085.2	5713.0	6559.8
25°	5405.4	5418.1	5047.3	4920.9	4786.1	4840.9	4857.7	5022.0	5190.5	5864.6	6774.7
27.5°	6020.5	6012.1	5670.8	5354.9	5266.4	5279.0	5186.3	5295.9	5346.4	5911.0	7082.2
30°	6703.1	6627.2	6370.2	5923.6	5852.0	5772.0	5569.7	5565.5	5670.8	6172.2	7507.8
32.5°	7149.6	7052.7	6875.8	6555.6	6357.6	6366.0	6045.8	6041.6	5948.9	6458.7	7878.5
35°	7587.8	7440.3	7394.0	7065.4	6867.4	6888.4	6631.4	6597.7	6429.2	6892.6	8489.4
37.5°	8114.4	7983.8	8055.5	7806.9	7562.5	7461.4	7343.4	7301.3	7082.2	7503.5	9323.6
40°	8695.9	8653.7	8607.4	8485.2	8337.7	8346.2	8219.8	8177.6	7853.2	8240.8	10124.1
42.5°	9479.5	9319.4	9079.2	9159.3	9235.1	9315.2	9273.0	9163.5	8826.5	8990.8	11017.3
45°	10208.4	9997.7	9555.3	9580.6	9892.4	9955.6	10465.4	10452.7	9774.4	9942.9	12032.6
47.5°	10701.3	10604.4	10339.0	10309.5	10756.1	10751.8	11670.3	11670.3	10772.9	10890.9	13123.8
50°	11434.4	11181.6	11067.8	11215.3	11442.8	11598.7	12900.5	12980.6	11754.6	11881.0	14552.1
52.5°	12293.8	11977.9	11691.4	12070.6	12475.0	12576.1	14118.1	14084.4	12508.7	13031.1	16224.7
55°	13005.9	12845.8	12647.7	12866.8	13528.3	13654.7	15339.9	15028.2	13262.9	13983.3	17029.4
57.5°	13835.8	13932.7	13974.9	13920.1	14708.0	14906.0	16734.5	15841.3	13911.7	14623.7	17501.2
60°	15087.1	15146.1	15200.9	15331.5	16165.7	16443.8	17838.3	16860.9	14320.4	14994.4	17539.2
62.5°	16991.5	16764.0	16886.1	17336.9	18006.8	18322.8	19464.6	17577.1	14632.1	15217.7	16300.5
65°	19169.6	18862.1	18735.7	19317.1	21052.9	20800.1	21495.3	18112.1	14181.3	14383.5	13823.2
67.5°	21377.3	21411.0	21086.6	22253.6	24381.3	24381.3	23382.7	18369.1	12959.5	11657.7	9694.4
70°	23130.0	23235.3	23412.2	25674.7	29045.2	29554.9	25721.0	17315.9	10469.6	7760.5	5300.1
72.5°	23104.7	22788.7	23694.5	27861.3	33283.5	32858.0	26209.7	13692.6	6534.5	3800.2	2431.0
73°	22586.5	22321.0	23311.1	27840.2	33456.3	33056.0	25851.6	12622.5	5763.5	3294.6	2161.3
75°	18445.0	17964.7	19649.9	25215.4	30953.7	31261.3	21962.9	8232.4	3159.8	2030.7	1520.9
77.5°	8409.4	8620.0	10815.0	16915.6	23854.6	24216.9	14438.3	3560.1	1731.6	1424.0	1120.7
80°	2700.6	2835.4	4208.9	8409.4	14952.3	15605.3	6673.6	1617.8	1234.4	1091.2	838.4
82.5°	1032.2	1028.0	1765.3	3496.9	7086.4	7503.5	2439.4	985.9	918.5	804.7	594.0
85°	362.3	379.2	665.7	1381.9	2789.1	2919.7	846.8	547.7	636.2	539.3	341.3
87.5°	126.4	130.6	235.9	501.4	960.6	1015.4	235.9	219.1	316.0	311.8	172.7
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°	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0	5713.0
2.5°	5772.0	5809.9	5822.5	5974.2	5974.2	5974.2	6033.2	6033.2	6016.3	5974.2	6075.3
5°	5797.2	5864.6	5995.3	6125.9	6159.6	6189.1	6269.1	6201.7	6227.0	6184.8	6222.8
7.5°	5868.9	5961.5	6205.9	6286.0	6231.2	6294.4	6210.1	6163.8	6117.4	6134.3	6075.3
10°	5991.0	6109.0	6222.8	6370.2	6264.9	6201.7	6029.0	5986.8	5839.4	5788.8	5835.2
12.5°	6142.7	6286.0	6479.8	6425.0	6222.8	6041.6	5856.2	5679.3	5590.8	5464.4	5498.1
15°	6294.4	6458.7	6488.2	6395.5	6142.7	5915.2	5578.2	5329.6	5241.1	5127.4	5186.3
17.5°	6458.7	6614.6	6564.0	6323.9	5982.6	5637.1	5253.7	5009.4	4824.0	4752.4	4752.4
20°	6703.1	6778.9	6698.8	6205.9	5788.8	5333.8	4963.0	4685.0	4499.6	4470.1	4423.8
22.5°	6892.6	7014.8	6656.7	6033.2	5506.5	4937.8	4512.2	4406.9	4352.1	4305.8	4246.8
25°	7137.0	7132.8	6580.9	5873.1	5022.0	4465.9	4208.9	4200.5	4175.2	4158.3	4238.4
27.5°	7368.7	7271.8	6492.4	5477.0	4520.7	4107.8	3968.7	4061.4	4099.4	4074.1	4107.8
30°	7735.3	7575.2	6366.0	5055.7	4078.3	3745.5	3770.7	3897.1	3960.3	3998.2	3947.7
32.5°	8122.9	7878.5	6104.8	4617.6	3686.5	3517.9	3576.9	3707.5	3783.4	3825.5	3871.8
35°	8683.2	8114.4	5839.4	4044.6	3404.2	3378.9	3412.6	3484.2	3593.8	3623.3	3635.9
37.5°	9374.2	8472.6	5481.3	3585.4	3185.1	3214.6	3248.3	3273.6	3277.8	3332.6	3311.5
40°	10065.1	8775.9	4958.8	3147.2	2957.6	3117.7	3100.8	3054.5	3016.6	2966.0	2953.4
42.5°	10671.8	9041.3	4377.4	2776.4	2755.4	3016.6	2961.8	2843.8	2755.4	2717.5	2654.3
45°	11354.3	9416.3	3791.8	2544.7	2599.5	2894.4	2877.6	2696.4	2582.6	2447.8	2431.0
47.5°	12239.1	9808.1	3231.5	2304.6	2452.0	2848.1	2856.5	2624.8	2460.5	2279.3	2254.0
50°	13372.4	10372.7	2805.9	2203.5	2363.6	2780.7	2793.3	2527.9	2313.0	2127.6	2110.8
52.5°	14459.4	10949.9	2452.0	2047.6	2304.6	2700.6	2730.1	2439.4	2190.8	1959.1	1971.7
55°	15007.1	10739.2	2148.7	1933.8	2169.8	2570.0	2679.5	2376.2	2005.4	1845.3	1841.1
57.5°	15129.3	10221.0	1908.5	1815.8	2056.0	2431.0	2595.3	2186.6	1921.2	1786.4	1769.5
60°	14729.0	9315.2	1718.9	1689.5	1912.8	2287.7	2401.5	2085.5	1836.9	1727.4	1702.1
62.5°	13743.2	8375.7	1588.3	1630.5	1790.6	2131.8	2279.3	2013.9	1756.9	1681.0	1626.3
65°	11270.1	6888.4	1483.0	1516.7	1664.2	1980.2	2203.5	1933.8	1685.2	1613.6	1609.4
67.5°	7806.9	4748.2	1398.8	1461.9	1563.1	1870.6	2127.6	1845.3	1592.6	1567.3	1533.6
70°	3998.2	2532.1	1289.2	1339.8	1453.5	1731.6	1992.8	1752.7	1495.7	1491.4	1449.3
72.5°	2026.5	1483.0	1162.8	1238.7	1318.7	1550.4	1824.3	1630.5	1373.5	1327.1	1259.7
73°	1752.7	1373.5	1141.8	1209.2	1285.0	1499.9	1773.7	1601.0	1356.6	1289.2	1226.0
75°	1276.6	1082.8	1023.8	1091.2	1150.2	1352.4	1605.2	1466.2	1247.1	1175.5	1116.5
77.5°	956.4	834.2	851.0	926.9	977.4	1167.0	1428.2	1327.1	1129.1	1032.2	1006.9
80°	703.6	636.2	703.6	775.2	813.1	1028.0	1301.9	1150.2	952.2	842.6	821.6
82.5°	501.4	463.4	543.5	589.8	606.7	851.0	1171.2	918.5	720.4	577.2	530.9
85°	286.5	282.3	366.5	362.3	375.0	497.1	771.0	610.9	463.4	353.9	345.5
87.5°	126.4	139.0	185.4	147.5	155.9	235.9	328.6	227.5	189.6	105.3	80.0
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)