

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: P477122

Luminaire Tested: **IFLD-S-SA6E-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477122
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-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

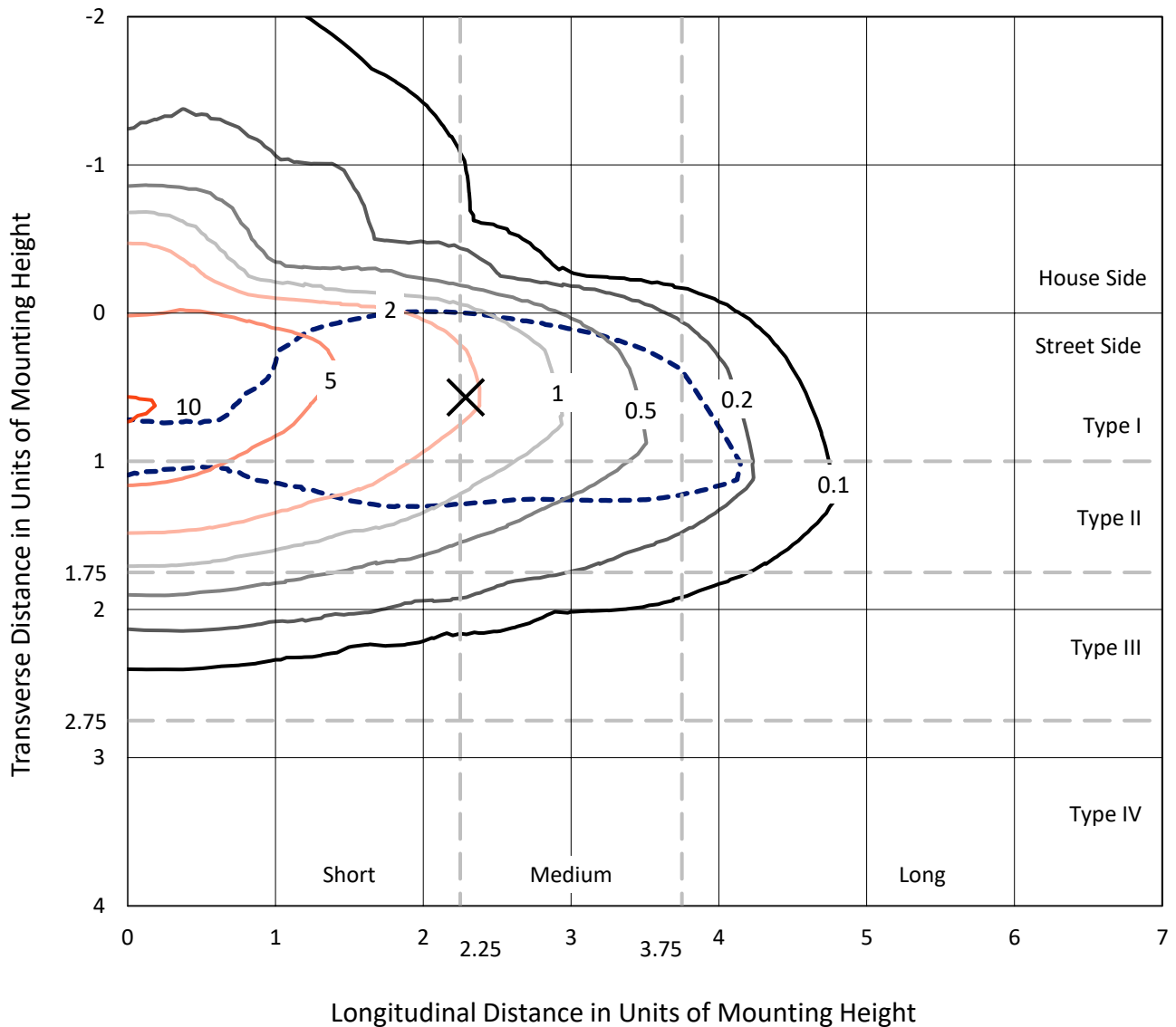
Lumens per Lamp: N/A
Luminaire Lumens: 39114.9 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

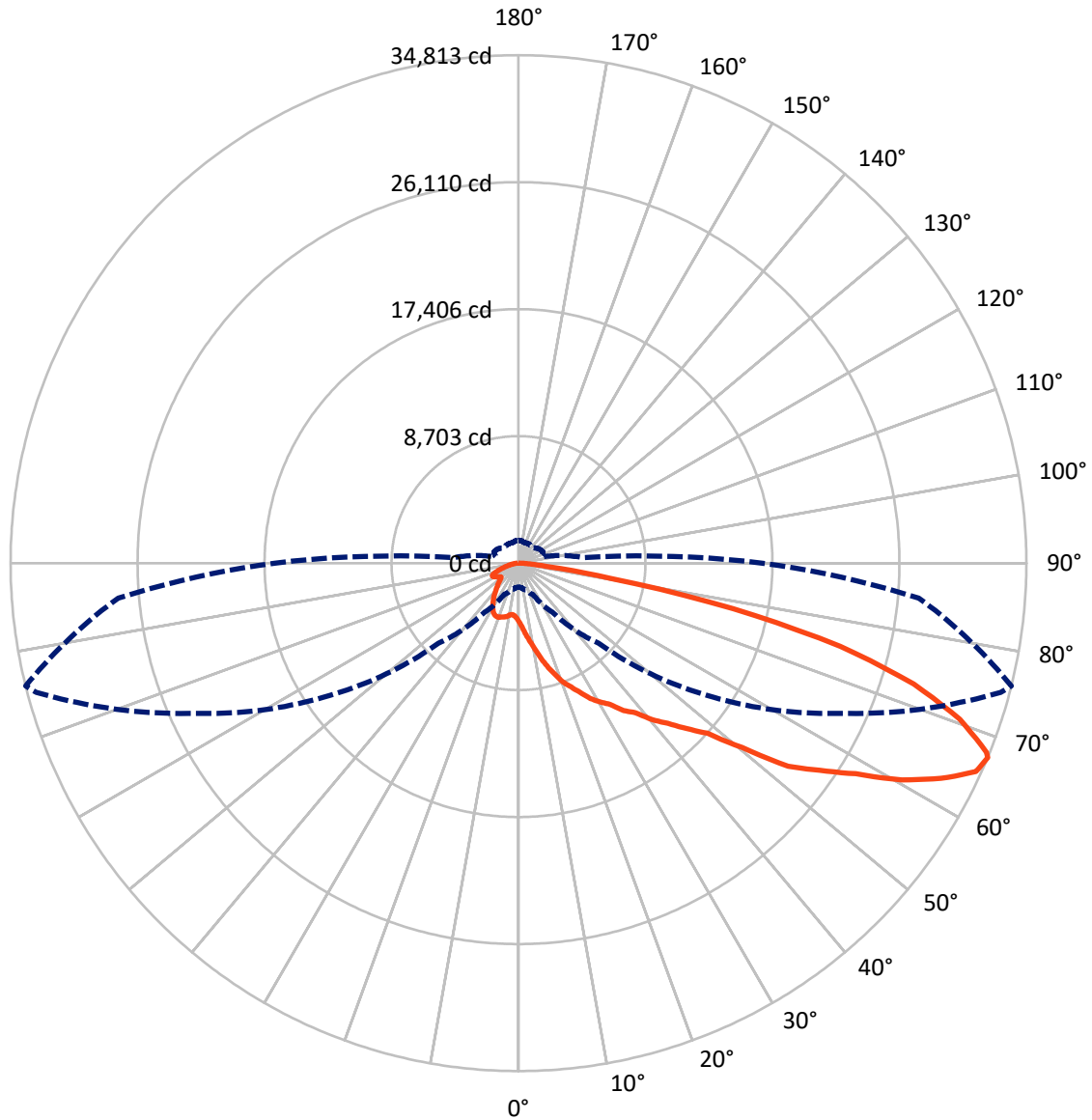
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5564.6	0.0	5564.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33550.3	0.0	33550.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	39114.9	0.0	39114.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.7	1.2
10°-20°	1739.0	4.4
20°-30°	3233.0	8.3
30°-40°	5125.1	13.1
40°-50°	7088.5	18.1
50°-60°	8719.3	22.3
60°-70°	8113.7	20.7
70°-80°	4071.4	10.4
80°-90°	561.4	1.4
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°	39114.9	100.0
0°-180°	39114.9	100.0

Coefficient of Utilization



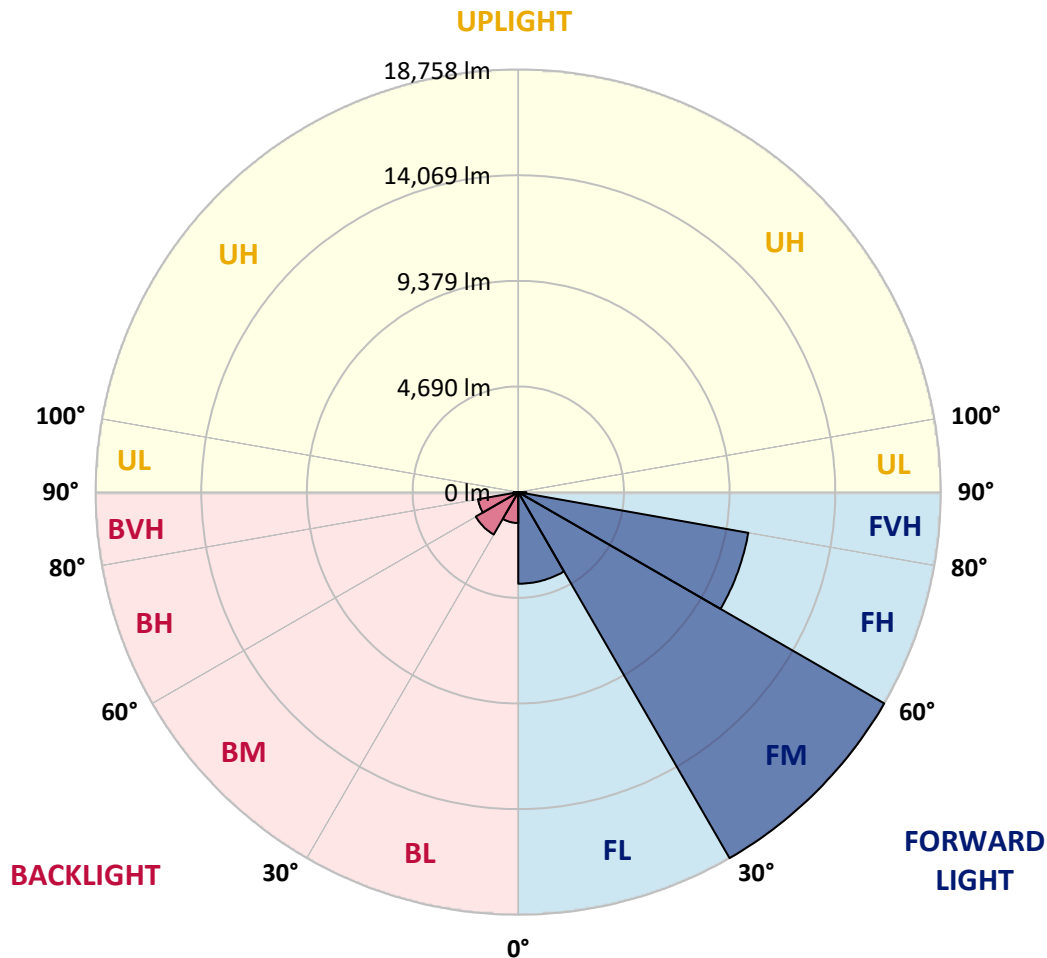
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4065.4	10.4			
FM (30°-60°)	18758.3	48.0			
FH (60°-80°)	10369.0	26.5			G4/12000
FVH (80°-90°)	357.7	0.9			G3/500
BL (0°-30°)	1370.3	3.5	B3/2500		
BM (30°-60°)	2174.5	5.6	B2/2500		
BH (60°-80°)	1816.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	203.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8
2.5°	5554.0	5487.2	5420.3	5277.7	5228.6	5094.9	4849.7	4577.8	4355.0	4323.8	4167.7
5°	6891.3	6793.2	6770.9	6690.7	6436.6	6178.1	5776.9	5340.1	4796.2	4836.4	4301.5
7.5°	7894.2	7836.2	7715.9	7640.1	7488.6	7145.3	6730.8	6151.3	5460.4	5326.7	4600.1
10°	8652.0	8571.7	8567.3	8500.4	8420.2	8068.0	7751.6	6971.5	6084.5	5901.7	4965.6
12.5°	9035.3	9021.9	9258.2	9258.2	9227.0	9079.9	8536.1	7822.9	6677.3	6614.9	5389.1
15°	9449.9	9338.4	9543.5	9699.5	9779.7	9855.5	9405.3	8652.0	7435.1	7314.7	5843.8
17.5°	9449.9	9440.9	9646.0	9904.5	10323.5	10421.6	10176.4	9414.2	8063.6	7974.4	6343.0
20°	9289.4	9418.7	9561.3	9909.0	10363.6	10760.4	10831.7	10194.3	8758.9	8687.6	6909.1
22.5°	10038.2	9913.4	10060.5	10194.3	10546.4	11148.2	11344.3	10880.7	9490.0	9218.1	7421.7
25°	11295.2	11210.6	11103.6	10907.4	11054.5	11317.5	11616.2	11388.9	10114.0	9810.9	7916.5
27.5°	12521.1	12525.5	12293.7	11865.8	11549.3	11602.8	11955.0	11834.6	10640.0	10506.3	8255.2
30°	14263.9	14157.0	13898.4	13318.9	12699.4	12191.2	12133.3	12249.1	11308.6	11050.1	8741.1
32.5°	15570.0	15592.3	15226.7	14393.2	13546.3	13131.7	12623.6	12672.6	11732.1	11540.4	9128.9
35°	16626.4	16599.6	16341.1	15650.2	14647.3	14148.0	13461.6	13180.8	12717.2	12414.1	9721.8
37.5°	17767.5	17549.1	17130.1	16350.0	15708.2	15017.2	14348.6	13715.7	13372.4	13006.9	10229.9
40°	18226.6	18226.6	17665.0	17308.4	16546.2	16024.6	15592.3	14419.9	14170.3	14099.0	10880.7
42.5°	17901.2	18101.8	17870.0	17464.4	17152.4	16492.7	16376.8	15151.0	15155.4	15012.8	11660.8
45°	17870.0	17593.7	17402.0	17504.5	17357.4	17321.8	17616.0	16162.8	16189.6	16171.7	12708.3
47.5°	16974.1	16849.3	17134.5	17303.9	17424.3	17977.0	18823.9	17370.8	17562.5	17428.7	13916.2
50°	16082.6	16060.3	16238.6	16853.7	17375.2	18284.6	19974.0	19234.0	19862.5	19853.6	16104.9
52.5°	13639.9	13876.1	14576.0	15877.5	17165.7	18703.6	20843.2	21614.3	22813.4	23138.8	17919.1
55°	11304.2	11179.4	12213.5	14103.5	16252.0	18868.5	21814.9	23045.2	24810.3	25046.6	19782.3
57.5°	8794.6	9026.4	9842.1	11656.3	14362.0	18052.8	22528.1	24458.2	27065.8	27248.6	21944.2
60°	6561.4	6592.6	7488.6	8950.6	11848.0	16211.8	22759.9	25906.9	29651.1	30172.7	24208.6
62.5°	4127.6	4314.8	4996.8	6436.6	8919.4	13635.4	21721.3	26785.0	32361.3	32499.5	26490.8
65°	2224.3	2344.6	2857.2	3762.1	6231.6	10314.6	18966.6	26259.0	33636.1	34456.3	27507.1
67°	1644.8	1667.1	1903.3	2402.6	4167.7	7764.9	15815.1	24355.7	34215.6	34812.9	27547.2
67.5°	1542.3	1573.5	1760.7	2157.4	3695.2	7149.8	14990.5	23678.1	33957.1	34598.9	27235.2
70°	1319.4	1328.3	1372.9	1484.3	2072.7	4301.5	10207.6	19403.4	31474.3	32089.4	25046.6
72.5°	1172.3	1181.2	1199.1	1221.3	1404.1	2487.3	6209.3	14932.6	27355.5	28336.2	21609.9
75°	1029.7	1060.9	1069.8	1052.0	1194.6	1618.1	3303.0	10974.3	22314.1	22791.1	16804.7
77.5°	873.7	887.0	904.9	922.7	1065.3	1208.0	1586.9	7408.3	15315.9	15026.2	9088.8
80°	735.5	739.9	753.3	766.7	922.7	922.7	900.4	4002.8	6690.7	6396.5	3071.2
82.5°	526.0	557.2	588.4	624.0	766.7	619.6	588.4	1783.0	2117.3	2014.8	1038.6
85°	205.0	249.6	387.8	427.9	485.9	334.3	392.3	771.1	882.6	873.7	387.8
87.5°	35.7	40.1	107.0	164.9	178.3	115.9	187.2	276.4	329.9	356.6	142.6
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°	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8
2.5°	4038.5	3900.3	3735.4	3570.4	3463.5	3294.1	3280.7	3178.2	3164.8	3129.1	3147.0
5°	4069.7	3904.8	3570.4	3307.4	3187.1	3089.0	3111.3	3066.7	3053.4	3031.1	2995.4
7.5°	4314.8	3989.4	3490.2	3262.9	3173.7	3129.1	3129.1	3075.7	3035.5	3062.3	3089.0
10°	4475.3	4029.6	3552.6	3325.3	3254.0	3155.9	3191.6	3124.7	3147.0	3093.5	3093.5
12.5°	4733.8	4256.9	3681.9	3418.9	3303.0	3213.8	3249.5	3173.7	3155.9	3160.4	3147.0
15°	5081.5	4408.4	3739.8	3472.4	3392.1	3280.7	3254.0	3187.1	3120.2	3097.9	3124.7
17.5°	5406.9	4595.7	3779.9	3503.6	3374.3	3249.5	3218.3	3133.6	3111.3	3044.5	2991.0
20°	5794.7	4818.5	3833.4	3530.3	3307.4	3182.6	3102.4	3017.7	2941.9	2901.8	2919.6
22.5°	6053.3	4934.4	3860.2	3476.8	3209.4	3093.5	2924.1	2866.2	2759.2	2714.6	2678.9
25°	6476.7	5077.1	3793.3	3329.7	3035.5	2848.3	2696.8	2616.5	2540.8	2482.8	2465.0
27.5°	6583.7	5184.0	3637.3	3080.1	2759.2	2563.0	2433.8	2335.7	2286.7	2197.5	2179.7
30°	6895.7	5077.1	3405.5	2777.0	2496.2	2295.6	2166.3	2095.0	1979.1	1956.8	1907.8
32.5°	7096.3	5108.3	3111.3	2482.8	2193.1	2014.8	1930.1	1858.8	1827.6	1720.6	1693.8
35°	7430.6	5001.3	2812.7	2210.9	1943.5	1805.3	1734.0	1711.7	1609.1	1560.1	1515.5
37.5°	7644.6	4938.9	2514.0	1903.3	1671.6	1613.6	1635.9	1542.3	1417.5	1323.9	1292.7
40°	8019.0	4916.6	2175.2	1649.3	1484.3	1471.0	1542.3	1364.0	1136.7	1056.4	1011.8
42.5°	8558.4	4765.0	1912.3	1421.9	1337.2	1395.2	1408.6	1136.7	1007.4	940.5	909.3
45°	9075.4	4796.2	1653.7	1176.8	1163.4	1248.1	1216.9	962.8	887.0	838.0	864.8
47.5°	10069.4	4952.3	1399.6	980.6	1047.5	1127.7	945.0	860.3	789.0	753.3	757.8
50°	11607.3	5103.8	1176.8	896.0	989.6	1020.8	811.3	780.1	775.6	704.3	699.8
52.5°	12530.0	5045.9	1136.7	1002.9	1060.9	1020.8	882.6	860.3	824.6	793.4	757.8
55°	13996.5	5215.2	1221.3	1172.3	1203.5	980.6	989.6	980.6	953.9	873.7	896.0
57.5°	15164.3	5326.7	1332.8	1310.5	1292.7	1020.8	1034.1	1038.6	1020.8	985.1	1016.3
60°	16769.0	5549.6	1448.7	1453.1	1457.6	1109.9	1132.2	1158.9	1154.5	1141.1	1150.0
62.5°	17754.1	5447.0	1577.9	1649.3	1627.0	1292.7	1288.2	1306.0	1306.0	1328.3	1341.7
65°	17607.0	5068.2	1644.8	1823.1	1707.2	1426.4	1426.4	1435.3	1439.8	1484.3	1488.8
67°	16724.5	4390.6	1609.1	1849.9	1707.2	1479.9	1479.9	1488.8	1457.6	1573.5	1537.8
67.5°	16314.4	4190.0	1577.9	1827.6	1693.8	1475.4	1475.4	1479.9	1453.1	1564.6	1528.9
70°	14188.2	3111.3	1359.5	1618.1	1569.0	1435.3	1435.3	1408.6	1386.3	1533.4	1502.2
72.5°	12111.0	2259.9	1092.1	1377.4	1417.5	1381.8	1390.7	1323.9	1261.5	1364.0	1337.2
75°	9276.0	1662.6	851.4	1060.9	1199.1	1292.7	1350.6	1181.2	1101.0	1127.7	1078.7
77.5°	5175.1	1083.2	673.1	784.5	913.8	1203.5	1297.1	1065.3	900.4	869.2	869.2
80°	1756.2	633.0	494.8	583.9	628.5	1065.3	1212.4	864.8	708.7	677.5	655.2
82.5°	664.2	387.8	338.8	401.2	401.2	842.5	989.6	664.2	534.9	690.9	704.3
85°	303.1	231.8	222.9	231.8	231.8	517.1	699.8	432.4	481.4	414.5	365.5
87.5°	120.4	111.4	102.5	98.1	80.2	89.1	240.7	115.9	218.4	57.9	53.5
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)