

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: P477135

Luminaire Tested: **IFLD-L-SA8C-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477135
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

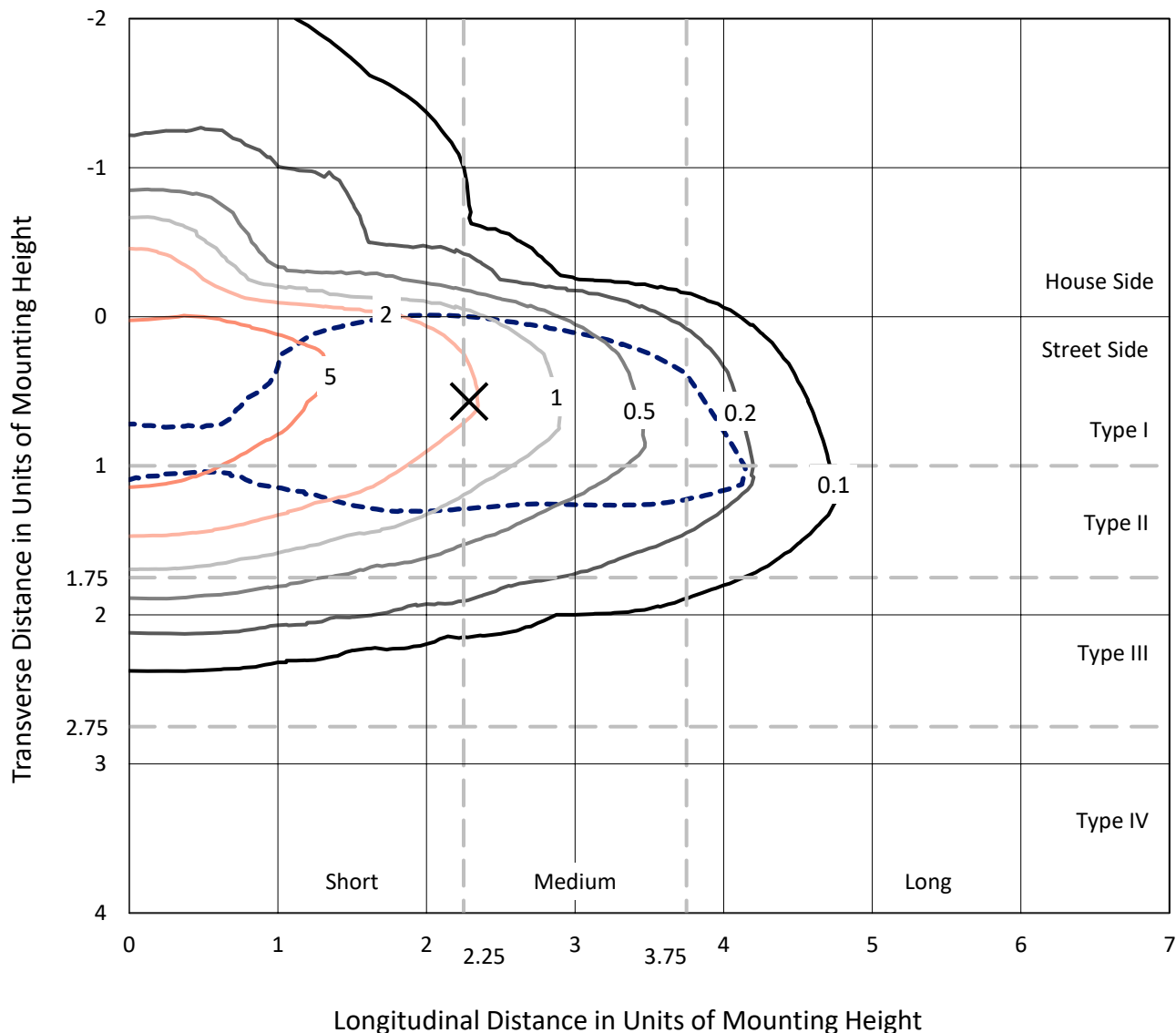
Lumens per Lamp: N/A
Luminaire Lumens: 37452.4 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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

REPORT NUMBER: P477135
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

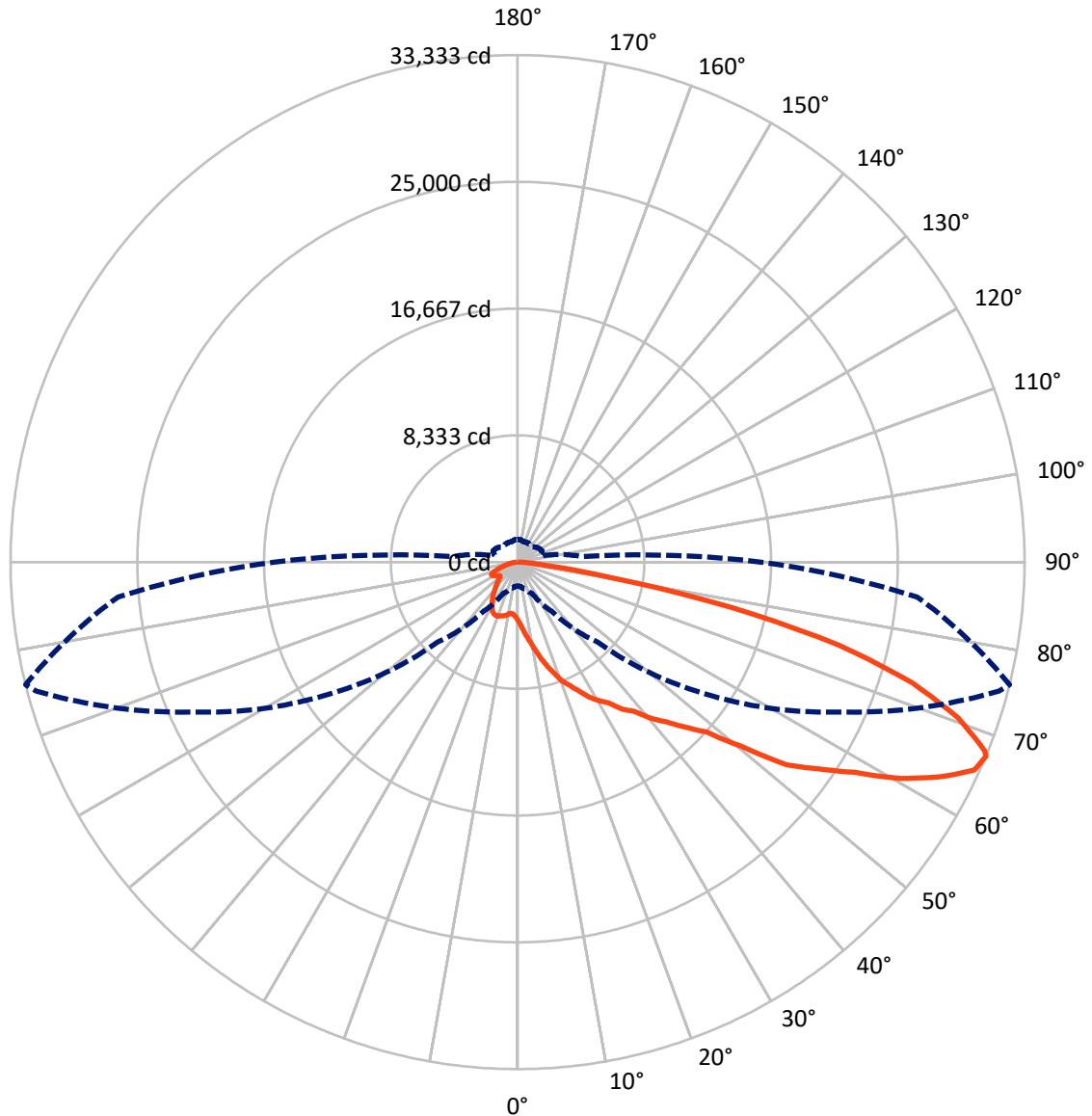
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P477135
CATALOG NUMBER: IFLD-L-SA8C-827-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477135
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5328.1	0.0	5328.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	32124.3	0.0	32124.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	37452.4	0.0	37452.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	1.2
10°-20°	1665.1	4.4
20°-30°	3095.6	8.3
30°-40°	4907.3	13.1
40°-50°	6787.2	18.1
50°-60°	8348.7	22.3
60°-70°	7768.8	20.7
70°-80°	3898.3	10.4
80°-90°	537.5	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°	37452.4	100.0
0°-180°	37452.4	100.0

Coefficient of Utilization



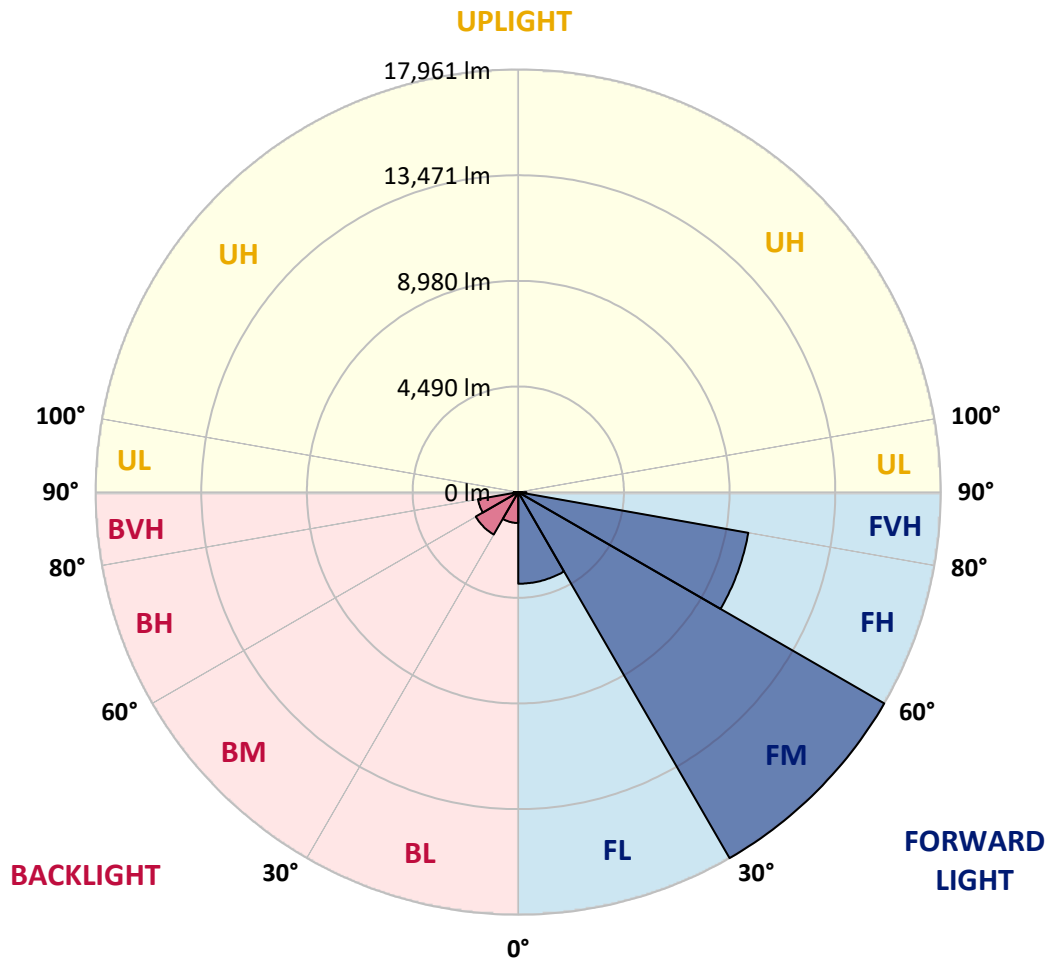
REPORT NUMBER: P477135
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3892.6	10.4			
FM (30°-60°)	17961.0	48.0			
FH (60°-80°)	9928.3	26.5			G4/12000
FVH (80°-90°)	342.5	0.9			G3/500
BL (0°-30°)	1312.1	3.5	B3/2500		
BM (30°-60°)	2082.1	5.6	B2/2500		
BH (60°-80°)	1738.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	195.1	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





REPORT NUMBER: P477135

CATALOG NUMBER: IFLD-L-SA8C-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	5318.0	5253.9	5189.9	5053.3	5006.4	4878.3	4643.6	4383.3	4169.9	4140.0	3990.6
5°	6598.4	6504.5	6483.1	6406.3	6163.0	5915.5	5531.4	5113.1	4592.4	4630.8	4118.6
7.5°	7558.7	7503.2	7387.9	7315.4	7170.3	6841.6	6444.7	5889.9	5228.3	5100.3	4404.6
10°	8284.2	8207.4	8203.1	8139.1	8062.3	7725.1	7422.1	6675.2	5825.8	5650.9	4754.6
12.5°	8651.3	8638.5	8864.7	8864.7	8834.8	8694.0	8173.3	7490.4	6393.5	6333.7	5160.0
15°	9048.2	8941.5	9137.8	9287.2	9364.0	9436.6	9005.5	8284.2	7119.1	7003.8	5595.4
17.5°	9048.2	9039.7	9236.0	9483.5	9884.7	9978.6	9743.9	9014.1	7720.8	7635.5	6073.4
20°	8894.6	9018.3	9154.9	9487.8	9923.1	10303.0	10371.3	9761.0	8386.7	8318.4	6615.4
22.5°	9611.6	9492.1	9632.9	9761.0	10098.1	10674.3	10862.1	10418.2	9086.6	8826.3	7106.3
25°	10815.2	10734.1	10631.6	10443.8	10584.7	10836.5	11122.5	10904.8	9684.1	9393.9	7580.0
27.5°	11988.9	11993.1	11771.2	11361.5	11058.4	11109.7	11446.8	11331.6	10187.8	10059.7	7904.4
30°	13657.7	13555.2	13307.7	12752.8	12159.6	11673.0	11617.5	11728.5	10828.0	10580.4	8369.6
32.5°	14908.2	14929.5	14579.6	13781.4	12970.5	12573.6	12087.0	12134.0	11233.4	11049.9	8740.9
35°	15919.7	15894.1	15646.6	14985.0	14024.7	13546.7	12889.4	12620.5	12176.7	11886.4	9308.5
37.5°	17012.3	16803.2	16402.0	15655.1	15040.5	14379.0	13738.8	13132.7	12804.1	12454.1	9795.1
40°	17451.9	17451.9	16914.2	16572.7	15842.9	15343.5	14929.5	13807.0	13568.0	13499.7	10418.2
42.5°	17140.4	17332.4	17110.5	16722.1	16423.3	15791.7	15680.7	14507.0	14511.3	14374.7	11165.1
45°	17110.5	16845.9	16662.3	16760.5	16619.7	16585.5	16867.2	15475.8	15501.4	15484.4	12168.1
47.5°	16252.6	16133.1	16406.3	16568.4	16683.7	17212.9	18023.8	16632.5	16816.0	16688.0	13324.8
50°	15399.0	15377.7	15548.4	16137.4	16636.7	17507.4	19125.0	18416.5	19018.3	19009.8	15420.4
52.5°	13060.1	13286.3	13956.4	15202.7	16436.1	17908.6	19957.3	20695.6	21843.7	22155.3	17157.4
55°	10823.7	10704.2	11694.4	13504.0	15561.2	18066.5	20887.7	22065.7	23755.8	23982.0	18941.5
57.5°	8420.8	8642.7	9423.8	11160.9	13751.6	17285.5	21570.6	23418.6	25915.4	26090.4	21011.5
60°	6282.5	6312.4	7170.3	8570.2	11344.4	15522.8	21792.5	24805.7	28390.9	28890.2	23179.6
62.5°	3952.2	4131.4	4784.4	6163.0	8540.3	13055.9	20798.1	25646.5	30985.8	31118.1	25364.8
65°	2129.7	2245.0	2735.8	3602.2	5966.7	9876.2	18160.4	25142.9	32206.5	32991.8	26337.9
67°	1574.9	1596.2	1822.4	2300.5	3990.6	7434.9	15142.9	23320.5	32761.3	33333.2	26376.4
67.5°	1476.7	1506.6	1685.9	2065.7	3538.2	6845.9	14353.3	22671.7	32513.8	33128.4	26077.6
70°	1263.3	1271.9	1314.5	1421.3	1984.6	4118.6	9773.8	18578.7	30136.5	30725.5	23982.0
72.5°	1122.5	1131.0	1148.1	1169.4	1344.4	2381.6	5945.3	14297.9	26192.8	27131.8	20691.4
75°	985.9	1015.8	1024.3	1007.3	1143.8	1549.3	3162.6	10507.9	21365.7	21822.4	16090.4
77.5°	836.5	849.3	866.4	883.5	1020.1	1156.6	1519.4	7093.4	14664.9	14387.5	8702.5
80°	704.2	708.5	721.3	734.1	883.5	883.5	862.1	3832.7	6406.3	6124.6	2940.7
82.5°	503.6	533.5	563.4	597.5	734.1	593.3	563.4	1707.2	2027.3	1929.1	994.4
85°	196.3	239.0	371.3	409.7	465.2	320.1	375.6	738.4	845.1	836.5	371.3
87.5°	34.1	38.4	102.4	157.9	170.7	111.0	179.3	264.6	315.8	341.4	136.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477135
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	3866.8	3734.5	3576.6	3418.7	3316.3	3154.1	3141.3	3043.1	3030.3	2996.1	3013.2
5°	3896.7	3738.8	3418.7	3166.9	3051.6	2957.7	2979.1	2936.4	2923.6	2902.3	2868.1
7.5°	4131.4	3819.9	3341.9	3124.2	3038.8	2996.1	2996.1	2944.9	2906.5	2932.1	2957.7
10°	4285.1	3858.3	3401.6	3183.9	3115.7	3021.8	3055.9	2991.9	3013.2	2962.0	2962.0
12.5°	4532.6	4076.0	3525.4	3273.6	3162.6	3077.2	3111.4	3038.8	3021.8	3026.0	3013.2
15°	4865.5	4221.1	3580.9	3324.8	3248.0	3141.3	3115.7	3051.6	2987.6	2966.3	2991.9
17.5°	5177.1	4400.3	3619.3	3354.7	3230.9	3111.4	3081.5	3000.4	2979.1	2915.1	2863.8
20°	5548.4	4613.7	3670.5	3380.3	3166.9	3047.4	2970.5	2889.4	2816.9	2778.5	2795.6
22.5°	5796.0	4724.7	3696.1	3329.1	3073.0	2962.0	2799.8	2744.3	2641.9	2599.2	2565.1
25°	6201.4	4861.3	3632.1	3188.2	2906.5	2727.3	2582.2	2505.3	2432.8	2377.3	2360.2
27.5°	6303.9	4963.7	3482.7	2949.2	2641.9	2454.1	2330.3	2236.4	2189.5	2104.1	2087.1
30°	6602.6	4861.3	3260.8	2659.0	2390.1	2198.0	2074.3	2006.0	1895.0	1873.7	1826.7
32.5°	6794.7	4891.1	2979.1	2377.3	2099.9	1929.1	1848.1	1779.8	1749.9	1647.5	1621.8
35°	7114.8	4788.7	2693.1	2116.9	1860.9	1728.5	1660.3	1638.9	1540.8	1493.8	1451.1
37.5°	7319.7	4729.0	2407.2	1822.4	1600.5	1545.0	1566.4	1476.7	1357.2	1267.6	1237.7
40°	7678.2	4707.6	2082.8	1579.2	1421.3	1408.4	1476.7	1306.0	1088.3	1011.5	968.8
42.5°	8194.6	4562.5	1831.0	1361.5	1280.4	1335.9	1348.7	1088.3	964.6	900.6	870.7
45°	8689.7	4592.4	1583.4	1126.8	1114.0	1195.0	1165.2	921.9	849.3	802.4	828.0
47.5°	9641.5	4741.8	1340.2	939.0	1003.0	1079.8	904.8	823.7	755.4	721.3	725.6
50°	11113.9	4886.9	1126.8	857.9	947.5	977.4	776.8	746.9	742.6	674.3	670.1
52.5°	11997.4	4831.4	1088.3	960.3	1015.8	977.4	845.1	823.7	789.6	759.7	725.6
55°	13401.6	4993.6	1169.4	1122.5	1152.4	939.0	947.5	939.0	913.4	836.5	857.9
57.5°	14519.8	5100.3	1276.1	1254.8	1237.7	977.4	990.2	994.4	977.4	943.2	973.1
60°	16056.3	5313.7	1387.1	1391.4	1395.6	1062.7	1084.1	1109.7	1105.4	1092.6	1101.1
62.5°	16999.5	5215.5	1510.9	1579.2	1557.8	1237.7	1233.5	1250.5	1250.5	1271.9	1284.7
65°	16858.7	4852.7	1574.9	1745.6	1634.7	1365.8	1365.8	1374.3	1378.6	1421.3	1425.5
67°	16013.6	4204.0	1540.8	1771.2	1634.7	1417.0	1417.0	1425.5	1395.6	1506.6	1472.5
67.5°	15620.9	4011.9	1510.9	1749.9	1621.8	1412.7	1412.7	1417.0	1391.4	1498.1	1463.9
70°	13585.1	2979.1	1301.7	1549.3	1502.3	1374.3	1374.3	1348.7	1327.4	1468.2	1438.3
72.5°	11596.2	2163.9	1045.7	1318.8	1357.2	1323.1	1331.6	1267.6	1207.8	1306.0	1280.4
75°	8881.7	1592.0	815.2	1015.8	1148.1	1237.7	1293.2	1131.0	1054.2	1079.8	1032.9
77.5°	4955.2	1037.1	644.5	751.2	874.9	1152.4	1242.0	1020.1	862.1	832.3	832.3
80°	1681.6	606.1	473.8	559.1	601.8	1020.1	1160.9	828.0	678.6	648.7	627.4
82.5°	635.9	371.3	324.4	384.1	384.1	806.7	947.5	635.9	512.2	661.5	674.3
85°	290.2	221.9	213.4	221.9	221.9	495.1	670.1	414.0	460.9	396.9	350.0
87.5°	115.2	106.7	98.2	93.9	76.8	85.4	230.5	111.0	209.1	55.5	51.2
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)