

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: P480448

Luminaire Tested: **IFLD-L-SA8A-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480448
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

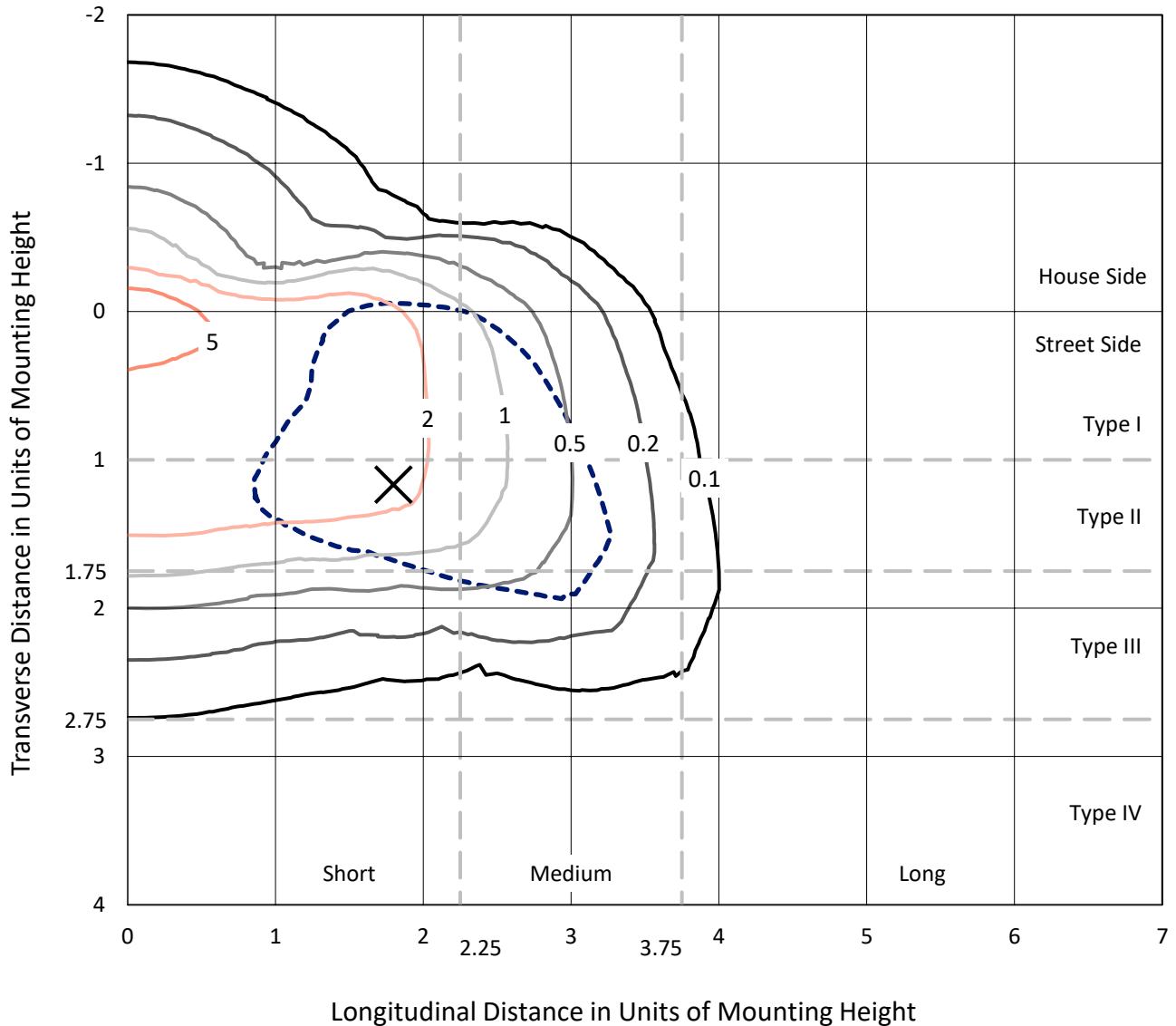
Lumens per Lamp: N/A
Luminaire Lumens: 30779.7 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

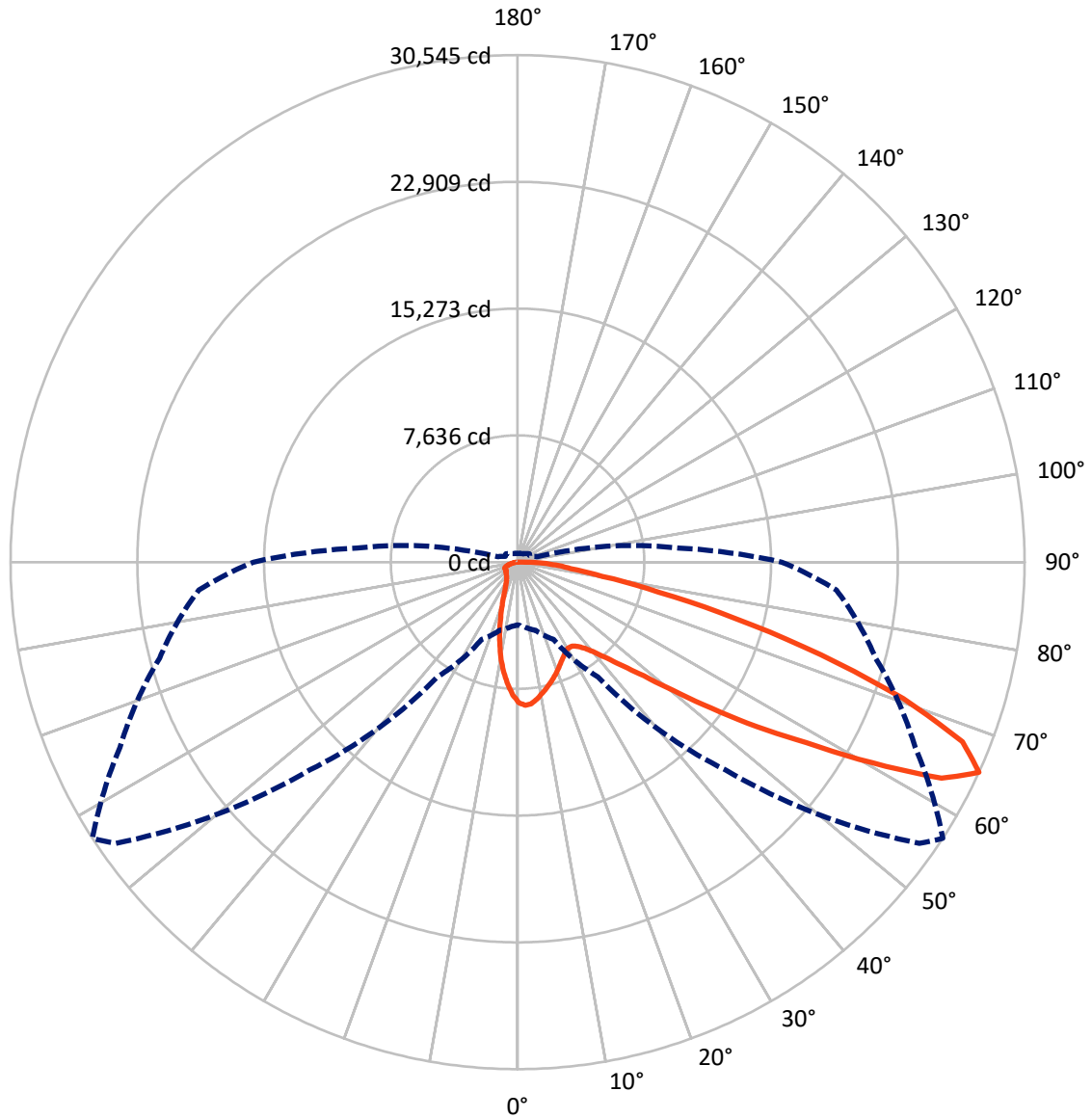
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4720.4	0.0	4720.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26059.3	0.0	26059.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	30779.7	0.0	30779.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.8	2.3
10°-20°	1525.4	5.0
20°-30°	1972.3	6.4
30°-40°	2654.0	8.6
40°-50°	4231.9	13.7
50°-60°	7474.6	24.3
60°-70°	8223.1	26.7
70°-80°	3439.8	11.2
80°-90°	549.8	1.8
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°	30779.7	100.0
0°-180°	30779.7	100.0



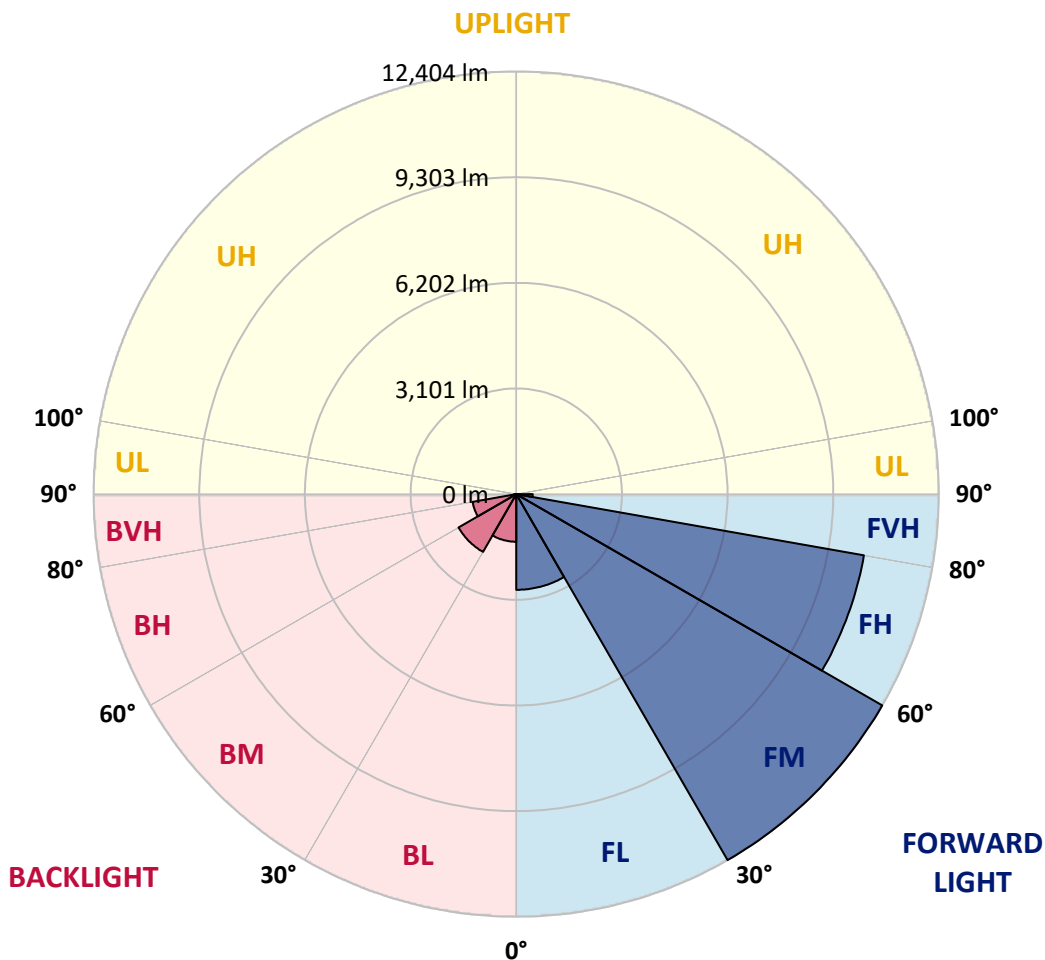
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2808.5	9.1			
FM (30°-60°)	12404.2	40.3			
FH (60°-80°)	10361.4	33.7			G4/12000
FVH (80°-90°)	485.3	1.6			G3/500
BL (0°-30°)	1397.9	4.5	B3/2500		
BM (30°-60°)	1956.4	6.4	B2/2500		
BH (60°-80°)	1301.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	64.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0
2.5°	8692.5	8706.4	8706.4	8734.1	8640.6	8685.6	8678.7	8637.1	8651.0	8578.3	8505.5
5°	8446.7	8436.3	8491.7	8498.6	8571.3	8592.1	8609.4	8581.7	8588.6	8429.3	8360.1
7.5°	7816.4	7812.9	7906.4	7986.1	8138.4	8280.4	8373.9	8346.2	8384.3	8283.9	8121.1
10°	7068.3	7148.0	7244.9	7324.6	7605.1	7785.2	8027.6	8051.9	8197.3	8173.1	7878.7
12.5°	6507.3	6541.9	6614.6	6843.2	7099.5	7397.3	7743.6	7774.8	7916.8	7986.1	7729.8
15°	6046.7	6077.9	6171.4	6341.1	6628.5	6981.7	7421.6	7501.2	7785.2	7809.4	7535.8
17.5°	5710.8	5735.0	5797.3	5967.0	6202.5	6656.2	7071.8	7213.8	7587.8	7705.5	7335.0
20°	5579.2	5527.2	5561.8	5669.2	5904.7	6254.5	6791.3	6915.9	7393.9	7625.9	7144.5
22.5°	5520.3	5475.3	5496.0	5489.1	5676.1	5925.5	6490.0	6621.6	7210.3	7532.4	6974.8
25°	5565.3	5565.3	5544.5	5527.2	5548.0	5710.8	6164.4	6368.8	6964.4	7452.7	6801.7
27.5°	5807.7	5714.2	5724.6	5651.9	5631.1	5631.1	6019.0	6140.2	6884.8	7407.7	6659.7
30°	5963.6	6008.6	6012.1	5904.7	5797.3	5603.4	5883.9	6001.7	6819.0	7463.1	6576.5
32.5°	6361.8	6341.1	6282.2	6261.4	6102.1	5883.9	5949.7	6029.4	6780.9	7587.8	6600.8
35°	6760.1	6749.7	6753.2	6742.8	6576.5	6254.5	6126.3	6233.7	6850.1	7806.0	6683.9
37.5°	7172.2	7199.9	7317.7	7317.7	7141.0	6791.3	6621.6	6590.4	7102.9	8162.7	6881.3
40°	7584.3	7653.6	7802.5	8038.0	7788.7	7463.1	7189.5	7141.0	7407.7	8640.6	7355.8
42.5°	7979.1	8093.4	8387.8	8737.6	8654.4	8328.9	7965.3	7909.9	8034.5	9350.5	8017.2
45°	8484.7	8581.7	9045.8	9582.6	9696.9	9409.4	8983.4	8938.4	8931.5	10389.5	8928.0
47.5°	9253.6	9357.5	9821.5	10361.8	10715.0	10760.0	10282.1	10233.6	10067.4	11792.1	10261.4
50°	10216.3	10386.0	10777.4	11407.7	11920.2	12401.6	12266.5	12124.5	11799.0	13423.2	11951.4
52.5°	10919.4	11127.1	11657.0	12463.9	13367.8	14133.2	14618.0	14618.0	13870.0	15213.7	13984.3
55°	11106.4	11231.0	11899.4	13066.5	14614.5	16550.5	17565.2	17489.0	16335.7	17097.6	16349.6
57.5°	10361.8	10524.6	11334.9	12557.4	15269.1	18811.9	20491.5	20508.9	19030.1	19286.4	18683.8
60°	8311.6	8363.5	9319.4	10954.0	14638.8	20633.5	24488.0	24553.8	22095.0	21236.1	19871.6
62.5°	5745.4	5911.6	6632.0	8065.7	12128.0	20429.2	28342.5	28668.1	24550.4	22264.7	20058.6
65°	3781.8	3882.2	4266.6	5139.3	8443.2	17707.2	29540.8	30545.1	26427.4	22323.5	19276.0
67.5°	2742.8	2760.1	2874.4	3324.6	5073.5	12734.1	27494.1	28910.5	27130.4	21831.8	17440.5
70°	2216.4	2230.3	2271.8	2559.3	3276.2	7968.7	22424.0	24643.9	25021.4	19501.1	14046.6
72.5°	1800.8	1818.2	1870.1	2140.2	2701.3	4432.8	16398.1	19102.8	20353.0	14427.5	9336.7
75°	1416.4	1430.3	1555.0	1821.6	2538.5	3044.1	10877.8	13527.1	13696.8	8432.8	4370.5
77.5°	969.7	993.9	1146.3	1544.6	2389.6	2663.2	6780.9	8664.8	7774.8	3300.4	1503.0
80°	616.4	651.1	741.1	1170.5	2112.5	2542.0	4218.1	5174.0	3404.3	1129.0	723.8
82.5°	363.6	398.3	488.3	758.4	1658.9	2358.4	2971.4	3238.1	1596.5	578.3	436.4
85°	200.9	225.1	294.4	457.1	973.1	2095.2	2379.2	2323.8	914.3	308.2	273.6
87.5°	65.8	76.2	107.4	183.5	401.7	987.0	1426.8	1340.2	474.5	142.0	107.4
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°	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0	8464.0
2.5°	8457.0	8446.7	8290.8	8173.1	7972.2	7806.0	7740.2	7650.1	7646.7	7580.9	7563.5
5°	8252.7	8145.4	7906.4	7677.8	7321.1	7082.2	6864.0	6711.6	6649.3	6514.2	6483.0
7.5°	7989.5	7847.5	7480.4	7051.0	6632.0	6257.9	5918.5	5579.2	5388.7	5322.9	5250.2
10°	7715.9	7466.6	6922.9	6441.5	5856.2	5281.3	4748.0	4270.1	4010.3	3826.8	3747.1
12.5°	7497.7	7165.3	6472.7	5752.3	4980.0	4211.2	3591.3	3089.1	2794.8	2656.2	2593.9
15°	7251.9	6812.0	5980.9	5070.1	4107.3	3234.6	2628.5	2233.7	2116.0	2050.2	2039.8
17.5°	6992.1	6483.0	5447.6	4398.2	3255.4	2434.6	2043.3	1884.0	1832.0	1804.3	1790.5
20°	6749.7	6188.7	4900.4	3650.2	2548.9	1953.2	1769.7	1686.6	1683.1	1696.9	1693.5
22.5°	6406.9	5804.3	4360.1	2957.5	2036.3	1700.4	1582.7	1561.9	1582.7	1600.0	1606.9
25°	6212.9	5489.1	3757.5	2348.0	1683.1	1509.9	1471.8	1464.9	1496.1	1516.9	1513.4
27.5°	6012.1	5163.6	3196.5	1880.5	1475.3	1374.9	1367.9	1374.9	1406.0	1437.2	1433.7
30°	5856.2	4903.8	2670.1	1572.3	1316.0	1277.9	1271.0	1277.9	1295.2	1298.7	1298.7
32.5°	5728.1	4595.6	2223.4	1364.5	1219.0	1187.9	1194.8	1191.3	1194.8	1198.3	1201.7
35°	5651.9	4412.1	1856.3	1236.3	1139.4	1115.1	1111.7	1101.3	1104.7	1108.2	1104.7
37.5°	5814.7	4322.0	1565.3	1146.3	1084.0	1063.2	1056.3	1049.3	1038.9	1038.9	1038.9
40°	6060.5	4273.5	1388.7	1087.4	1042.4	1018.2	997.4	990.5	990.5	993.9	997.4
42.5°	6548.8	4353.2	1267.5	1042.4	990.5	962.8	942.0	945.4	955.8	966.2	959.3
45°	7255.3	4595.6	1212.1	1007.8	959.3	921.2	907.3	903.9	914.3	931.6	945.4
47.5°	8180.0	4973.1	1191.3	976.6	938.5	886.6	869.3	879.6	893.5	917.7	907.3
50°	9693.4	5821.6	1208.6	948.9	907.3	869.3	848.5	838.1	848.5	865.8	872.7
52.5°	11670.9	7362.7	1274.4	935.1	886.6	855.4	820.8	803.5	813.8	827.7	827.7
55°	14036.2	9468.3	1458.0	917.7	851.9	834.6	796.5	761.9	768.8	768.8	765.4
57.5°	16121.0	11057.9	1676.2	893.5	831.2	806.9	758.4	716.9	709.9	713.4	716.9
60°	17056.1	11480.4	1780.1	886.6	831.2	772.3	706.5	664.9	654.5	647.6	647.6
62.5°	16893.3	10749.7	1568.8	855.4	851.9	744.6	658.0	613.0	599.1	585.3	588.7
65°	15909.8	9707.2	1236.3	813.8	855.4	727.3	609.5	564.5	540.3	522.9	519.5
67.5°	14112.4	8287.3	980.1	782.7	820.8	696.1	568.0	516.0	495.2	477.9	471.0
70°	11040.6	6496.9	851.9	741.1	737.7	619.9	519.5	474.5	443.3	422.5	422.5
72.5°	7158.4	4107.3	730.7	658.0	637.2	519.5	450.2	422.5	398.3	380.9	380.9
75°	3241.5	1908.2	588.7	550.6	519.5	415.6	380.9	367.1	346.3	329.0	329.0
77.5°	1163.6	813.8	439.8	432.9	387.9	322.1	308.2	297.8	284.0	266.7	266.7
80°	651.1	516.0	329.0	315.1	270.1	239.0	221.6	221.6	214.7	204.3	200.9
82.5°	412.1	335.9	242.4	211.3	176.6	159.3	152.4	148.9	145.5	131.6	128.1
85°	259.7	228.6	159.3	124.7	103.9	79.7	76.2	72.7	65.8	58.9	58.9
87.5°	117.7	131.6	62.3	38.1	27.7	17.3	10.4	3.5	0.0	0.0	0.0
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)