

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: P480640

Luminaire Tested: **IFLD-L-SA7C-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480640
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

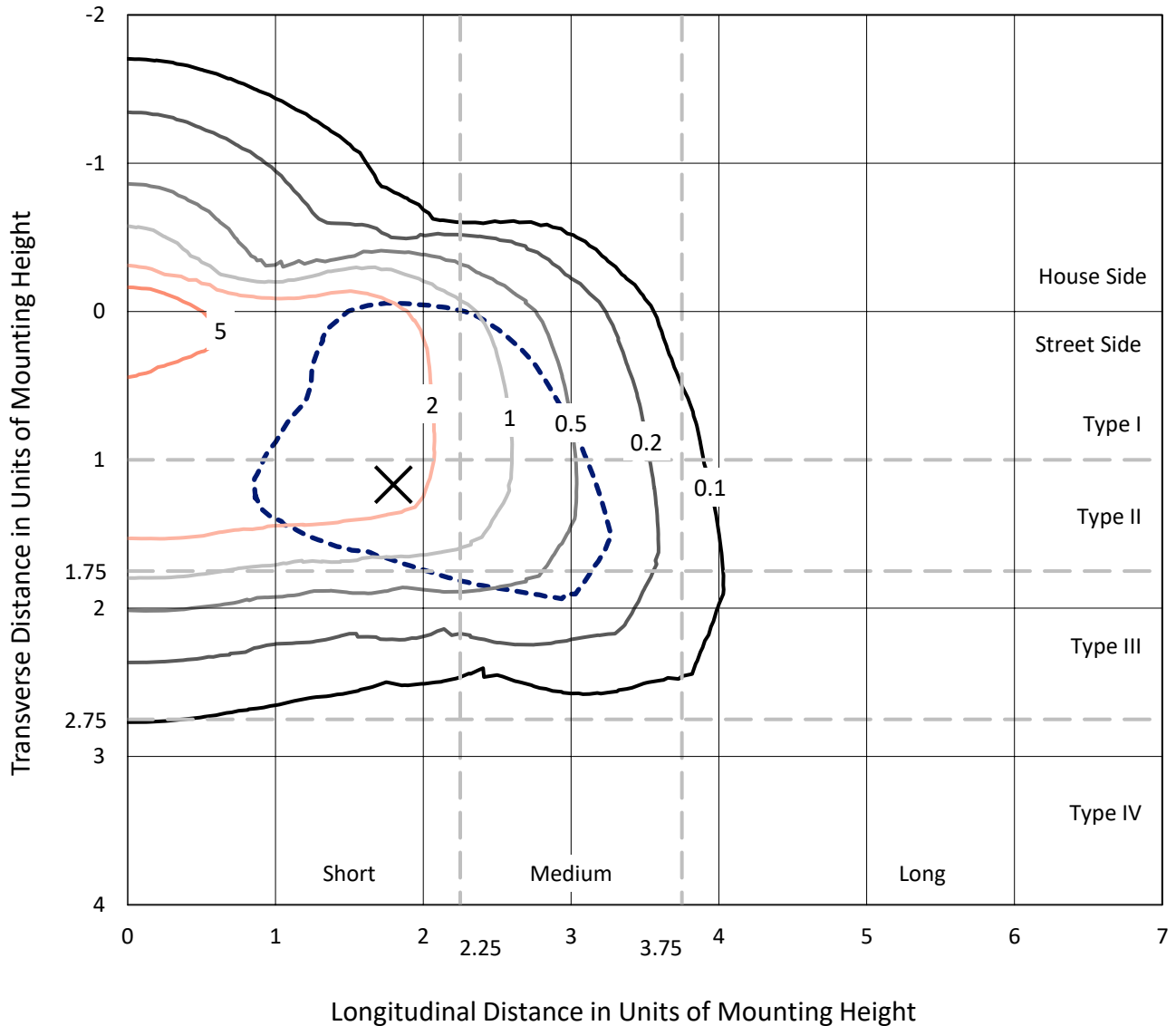
Lumens per Lamp: N/A
Luminaire Lumens: 32155 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
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: P480640
 CATALOG NUMBER: IFLD-L-SA7C-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

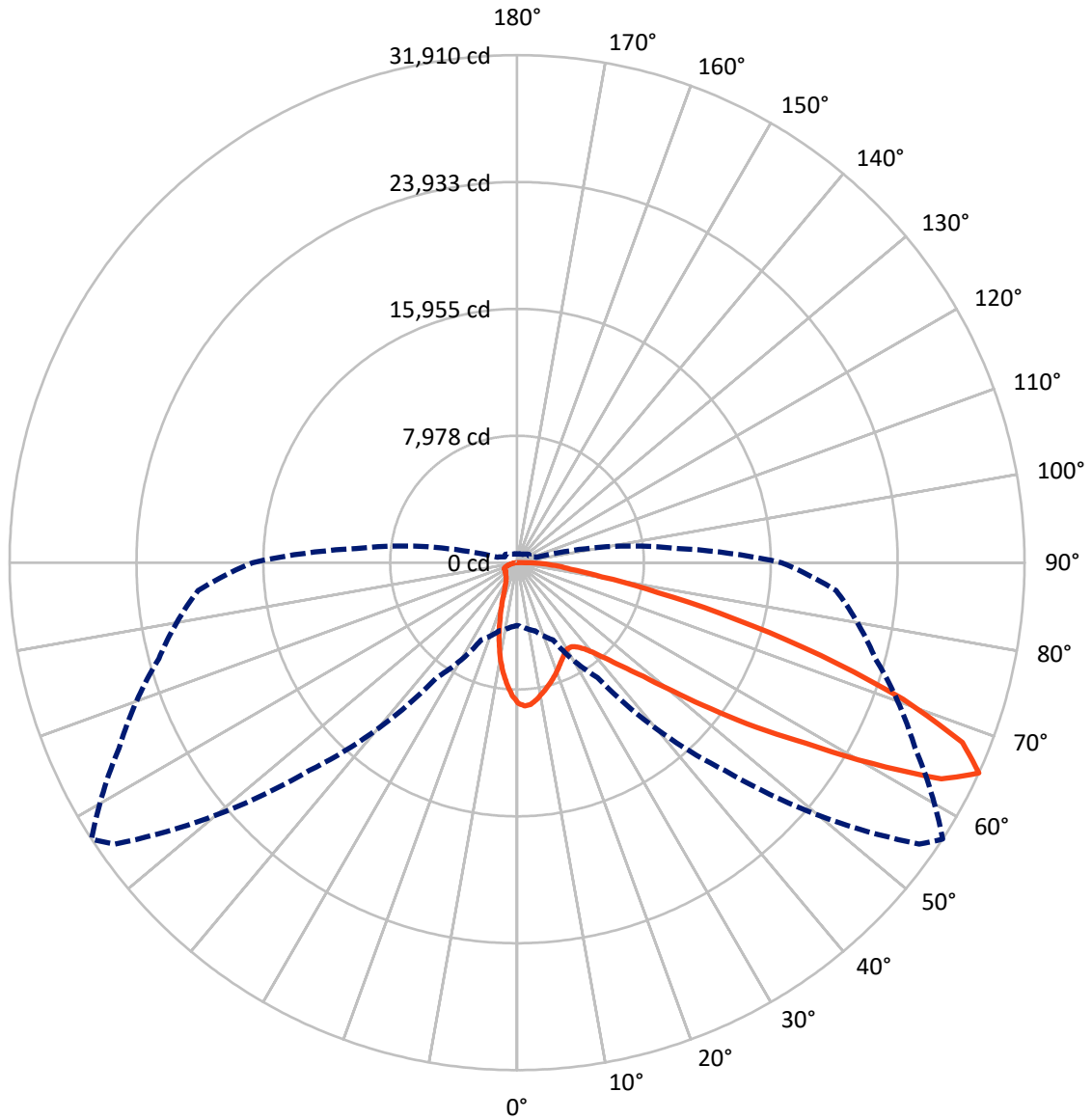
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

REPORT NUMBER: P480640
CATALOG NUMBER: IFLD-L-SA7C-827-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480640

CATALOG NUMBER: IFLD-L-SA7C-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4931.3	0.0	4931.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27223.8	0.0	27223.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	32155.0	0.0	32155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.5	2.3
10°-20°	1593.6	5.0
20°-30°	2060.4	6.4
30°-40°	2772.6	8.6
40°-50°	4421.0	13.7
50°-60°	7808.6	24.3
60°-70°	8590.5	26.7
70°-80°	3593.5	11.2
80°-90°	574.3	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°	32155.0	100.0
0°-180°	32155.0	100.0

Coefficient of Utilization



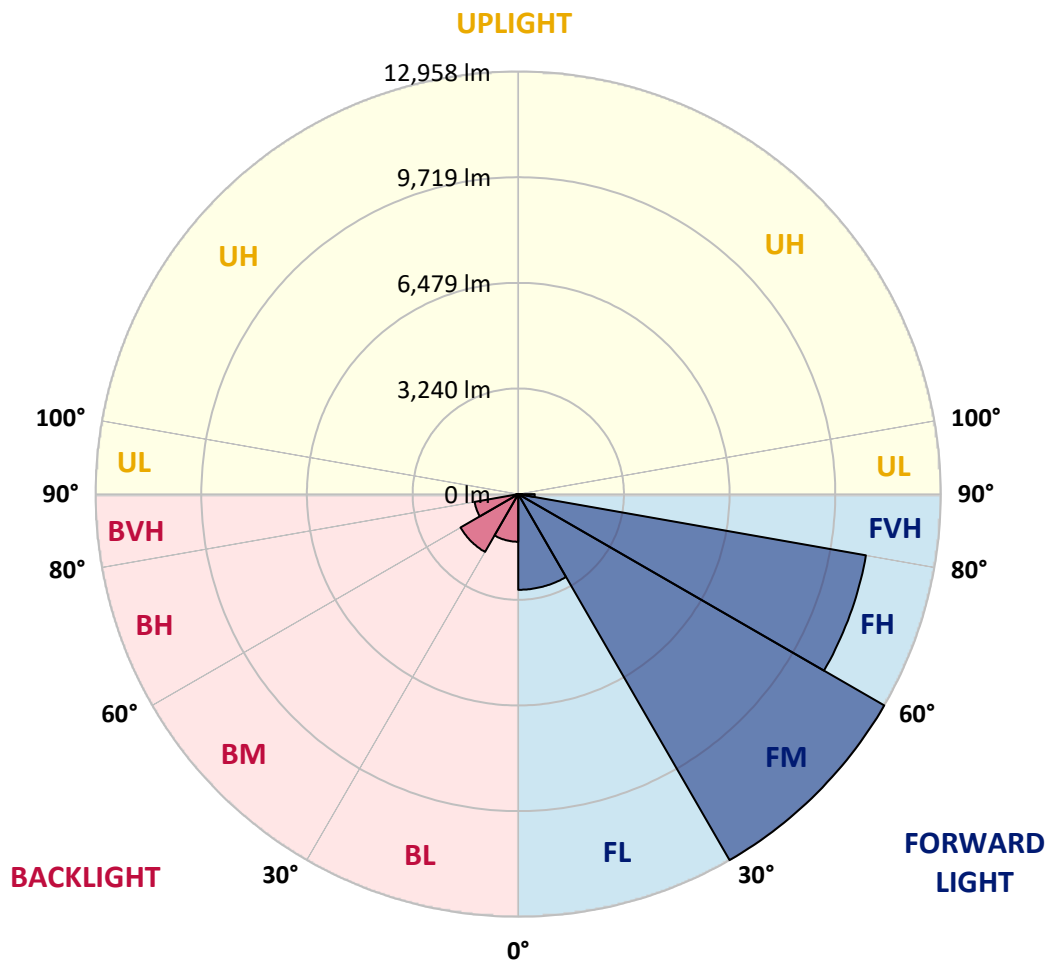
REPORT NUMBER: P480640
 CATALOG NUMBER: IFLD-L-SA7C-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.0	9.1			
FM (30°-60°)	12958.4	40.3			
FH (60°-80°)	10824.3	33.7			G4/12000
FVH (80°-90°)	506.9	1.6			G4/750
BL (0°-30°)	1460.4	4.5	B3/2500		
BM (30°-60°)	2043.8	6.4	B2/2500		
BH (60°-80°)	1359.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	67.4	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





REPORT NUMBER: P480640

CATALOG NUMBER: IFLD-L-SA7C-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2
2.5°	9081.0	9095.4	9095.4	9124.4	9026.7	9073.7	9066.5	9023.1	9037.5	8961.6	8885.6
5°	8824.1	8813.2	8871.1	8878.4	8954.3	8976.0	8994.1	8965.2	8972.4	8806.0	8733.6
7.5°	8165.6	8162.0	8259.7	8342.9	8502.1	8650.4	8748.1	8719.2	8759.0	8654.0	8484.0
10°	7384.2	7467.4	7568.7	7651.9	7944.9	8133.1	8386.3	8411.6	8563.6	8538.3	8230.8
12.5°	6798.1	6834.2	6910.2	7149.0	7416.7	7727.9	8089.7	8122.2	8270.6	8342.9	8075.2
15°	6316.9	6349.4	6447.1	6624.4	6924.7	7293.7	7753.2	7836.4	8133.1	8158.4	7872.6
17.5°	5965.9	5991.3	6056.4	6233.7	6479.7	6953.6	7387.8	7536.1	7926.8	8049.9	7662.7
20°	5828.5	5774.2	5810.4	5922.5	6168.5	6534.0	7094.7	7225.0	7724.2	7966.6	7463.8
22.5°	5767.0	5719.9	5741.6	5734.4	5929.8	6190.2	6780.0	6917.5	7532.5	7869.0	7286.5
25°	5814.0	5814.0	5792.3	5774.2	5795.9	5965.9	6439.9	6653.3	7275.6	7785.7	7105.6
27.5°	6067.2	5969.6	5980.4	5904.4	5882.7	5882.7	6287.9	6414.6	7192.4	7738.7	6957.2
30°	6230.0	6277.1	6280.7	6168.5	6056.4	5853.8	6146.8	6269.8	7123.7	7796.6	6870.4
32.5°	6646.1	6624.4	6562.9	6541.2	6374.8	6146.8	6215.6	6298.8	7083.9	7926.8	6895.7
35°	7062.2	7051.3	7054.9	7044.1	6870.4	6534.0	6400.1	6512.2	7156.2	8154.8	6982.6
37.5°	7492.7	7521.6	7644.7	7644.7	7460.1	7094.7	6917.5	6884.9	7420.3	8527.4	7188.8
40°	7923.2	7995.6	8151.2	8397.2	8136.7	7796.6	7510.8	7460.1	7738.7	9026.7	7684.4
42.5°	8335.7	8455.1	8762.6	9128.0	9041.2	8701.1	8321.2	8263.3	8393.6	9768.4	8375.5
45°	8863.9	8965.2	9450.0	10010.8	10130.2	9829.9	9384.9	9337.8	9330.6	10853.7	9327.0
47.5°	9667.1	9775.6	10260.4	10824.8	11193.8	11240.9	10741.6	10690.9	10517.3	12319.0	10719.9
50°	10672.8	10850.1	11258.9	11917.4	12452.9	12955.7	12814.6	12666.3	12326.2	14023.0	12485.4
52.5°	11407.3	11624.4	12177.9	13020.9	13965.1	14764.7	15271.2	15271.2	14489.7	15893.5	14609.1
55°	11602.6	11732.9	12431.2	13650.4	15267.6	17290.0	18350.1	18270.5	17065.7	17861.6	17080.2
57.5°	10824.8	10994.8	11841.4	13118.6	15951.4	19652.5	21407.2	21425.3	19880.4	20148.2	19518.6
60°	8683.0	8737.3	9735.8	11443.5	15292.9	21555.5	25582.3	25651.0	23082.3	22185.0	20759.6
62.5°	6002.1	6175.8	6928.3	8426.1	12669.9	21342.1	29609.0	29949.1	25647.4	23259.6	20955.0
65°	3950.8	4055.7	4457.3	5369.0	8820.5	18498.4	30860.8	31910.0	27608.3	23321.1	20137.3
67.5°	2865.4	2883.5	3002.9	3473.2	5300.2	13303.1	28722.6	30202.3	28342.7	22807.3	18219.8
70°	2315.5	2329.9	2373.4	2673.6	3422.5	8324.8	23426.0	25745.1	26139.4	20372.5	14674.3
72.5°	1881.3	1899.4	1953.7	2235.9	2822.0	4630.9	17130.8	19956.4	21262.5	15072.2	9753.9
75°	1479.7	1494.2	1624.4	1903.0	2651.9	3180.1	11363.9	14131.6	14308.8	8809.6	4565.8
77.5°	1013.0	1038.3	1197.5	1613.6	2496.4	2782.2	7083.9	9052.0	8122.2	3447.9	1570.2
80°	644.0	680.2	774.2	1222.9	2206.9	2655.5	4406.6	5405.2	3556.4	1179.4	756.1
82.5°	379.9	416.1	510.1	792.3	1733.0	2463.8	3104.2	3382.7	1667.9	604.2	455.9
85°	209.8	235.2	307.5	477.6	1016.6	2188.8	2485.5	2427.6	955.1	322.0	285.8
87.5°	68.7	79.6	112.2	191.7	419.7	1031.1	1490.6	1400.1	495.7	148.3	112.2
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: P480640

CATALOG NUMBER: IFLD-L-SA7C-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2	8842.2
2.5°	8834.9	8824.1	8661.3	8538.3	8328.4	8154.8	8086.0	7992.0	7988.4	7919.6	7901.5
5°	8621.5	8509.3	8259.7	8020.9	7648.3	7398.6	7170.7	7011.5	6946.4	6805.3	6772.7
7.5°	8346.5	8198.2	7814.7	7366.1	6928.3	6537.6	6183.0	5828.5	5629.5	5560.7	5484.8
10°	8060.7	7800.2	7232.2	6729.3	6117.9	5517.3	4960.2	4460.9	4189.5	3997.8	3914.6
12.5°	7832.8	7485.5	6761.9	6009.4	5202.6	4399.4	3751.8	3227.2	2919.7	2774.9	2709.8
15°	7575.9	7116.4	6248.1	5296.6	4290.8	3379.1	2746.0	2333.6	2210.5	2141.8	2131.0
17.5°	7304.6	6772.7	5691.0	4594.8	3400.8	2543.4	2134.6	1968.1	1913.9	1884.9	1870.5
20°	7051.3	6465.2	5119.3	3813.3	2662.8	2040.5	1848.8	1761.9	1758.3	1772.8	1769.2
22.5°	6693.1	6063.6	4555.0	3089.7	2127.3	1776.4	1653.4	1631.7	1653.4	1671.5	1678.7
25°	6490.5	5734.4	3925.4	2452.9	1758.3	1577.4	1537.6	1530.4	1562.9	1584.6	1581.0
27.5°	6280.7	5394.3	3339.3	1964.5	1541.2	1436.3	1429.1	1436.3	1468.9	1501.4	1497.8
30°	6117.9	5123.0	2789.4	1642.5	1374.8	1335.0	1327.8	1335.0	1353.1	1356.7	1356.7
32.5°	5984.0	4801.0	2322.7	1425.5	1273.5	1240.9	1248.2	1244.6	1248.2	1251.8	1255.4
35°	5904.4	4609.2	1939.2	1291.6	1190.3	1165.0	1161.4	1150.5	1154.1	1157.7	1154.1
37.5°	6074.5	4515.2	1635.3	1197.5	1132.4	1110.7	1103.5	1096.2	1085.4	1085.4	1085.4
40°	6331.3	4464.5	1450.8	1136.0	1089.0	1063.7	1042.0	1034.7	1034.7	1038.3	1042.0
42.5°	6841.5	4547.7	1324.2	1089.0	1034.7	1005.8	984.1	987.7	998.5	1009.4	1002.2
45°	7579.5	4801.0	1266.3	1052.8	1002.2	962.4	947.9	944.3	955.1	973.2	987.7
47.5°	8545.5	5195.3	1244.6	1020.3	980.5	926.2	908.1	919.0	933.4	958.7	947.9
50°	10126.5	6081.7	1262.7	991.3	947.9	908.1	886.4	875.5	886.4	904.5	911.7
52.5°	12192.4	7691.7	1331.4	976.8	926.2	893.6	857.4	839.4	850.2	864.7	864.7
55°	14663.4	9891.4	1523.1	958.7	890.0	871.9	832.1	795.9	803.2	803.2	799.6
57.5°	16841.4	11552.0	1751.1	933.4	868.3	843.0	792.3	748.9	741.7	745.3	748.9
60°	17818.2	11993.4	1859.6	926.2	868.3	806.8	738.1	694.6	683.8	676.5	676.5
62.5°	17648.2	11230.0	1638.9	893.6	890.0	777.9	687.4	640.4	625.9	611.4	615.0
65°	16620.7	10141.0	1291.6	850.2	893.6	759.8	636.8	589.7	564.4	546.3	542.7
67.5°	14743.0	8657.7	1023.9	817.6	857.4	727.2	593.3	539.1	517.4	499.3	492.0
70°	11533.9	6787.2	890.0	774.2	770.6	647.6	542.7	495.7	463.1	441.4	441.4
72.5°	7478.2	4290.8	763.4	687.4	665.7	542.7	470.3	441.4	416.1	398.0	398.0
75°	3386.4	1993.5	615.0	575.2	542.7	434.1	398.0	383.5	361.8	343.7	343.7
77.5°	1215.6	850.2	459.5	452.2	405.2	336.5	322.0	311.1	296.7	278.6	278.6
80°	680.2	539.1	343.7	329.2	282.2	249.6	231.5	231.5	224.3	213.5	209.8
82.5°	430.5	350.9	253.3	220.7	184.5	166.4	159.2	155.6	152.0	137.5	133.9
85°	271.3	238.8	166.4	130.2	108.5	83.2	79.6	76.0	68.7	61.5	61.5
87.5°	123.0	137.5	65.1	39.8	28.9	18.1	10.9	3.6	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)