

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: P480641

Luminaire Tested: **IFLD-L-SA7D-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480641
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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

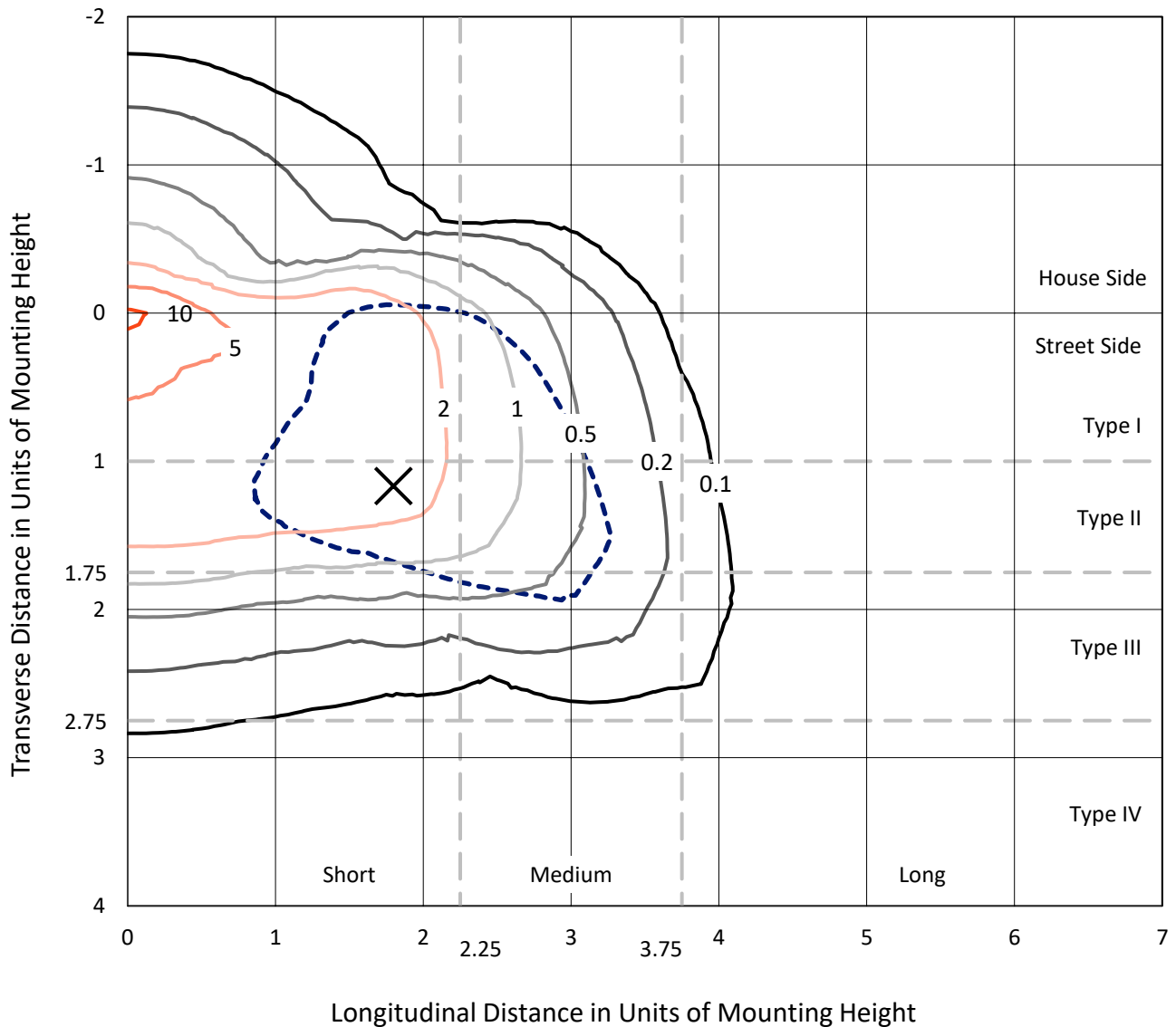
Lumens per Lamp: N/A
Luminaire Lumens: 35381.5 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

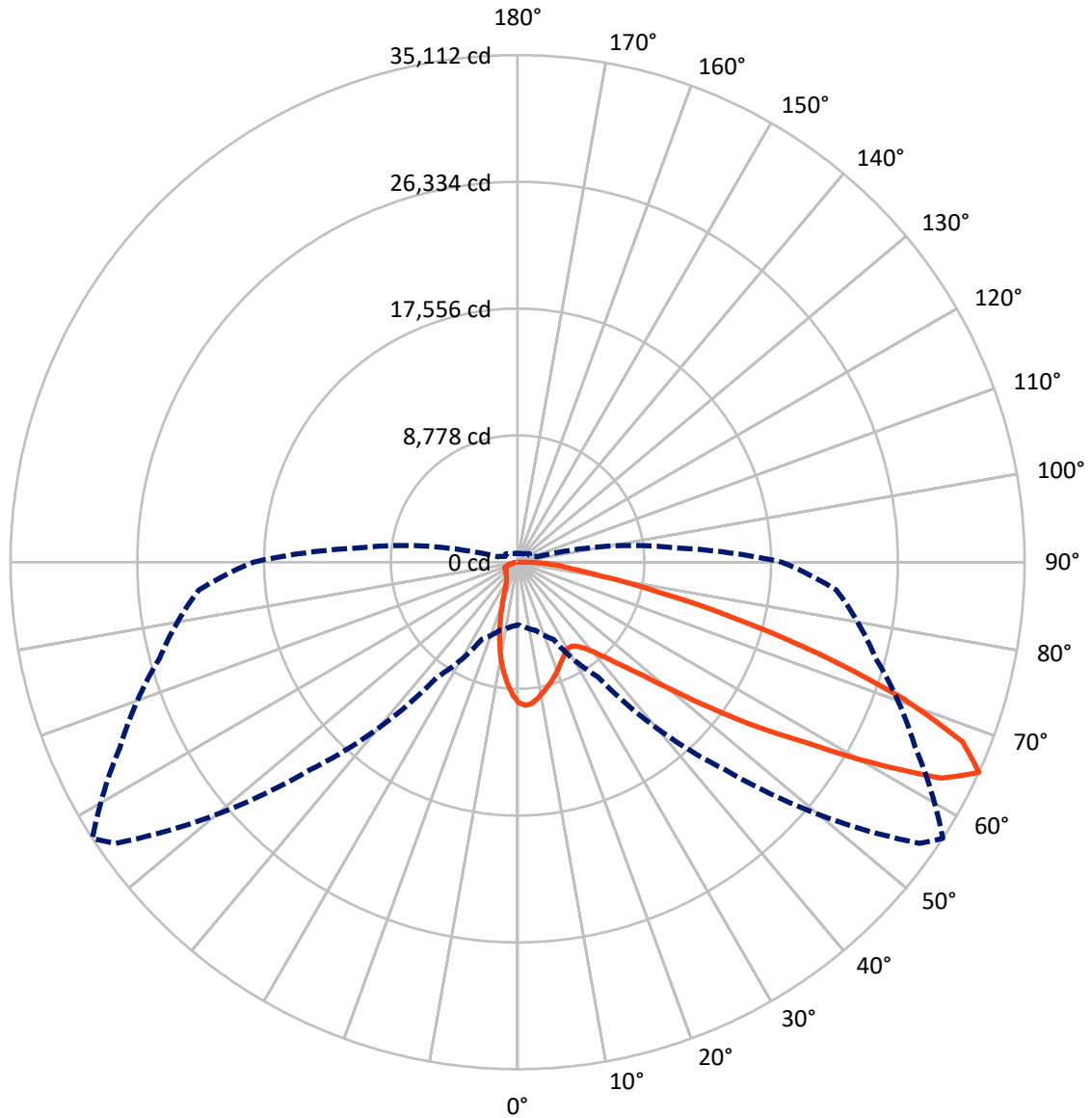
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	5426.1	0.0	5426.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29955.4	0.0	29955.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	35381.5	0.0	35381.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.8	2.3
10°-20°	1753.5	5.0
20°-30°	2267.1	6.4
30°-40°	3050.8	8.6
40°-50°	4864.6	13.7
50°-60°	8592.1	24.3
60°-70°	9452.5	26.7
70°-80°	3954.1	11.2
80°-90°	632.0	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°	35381.5	100.0
0°-180°	35381.5	100.0



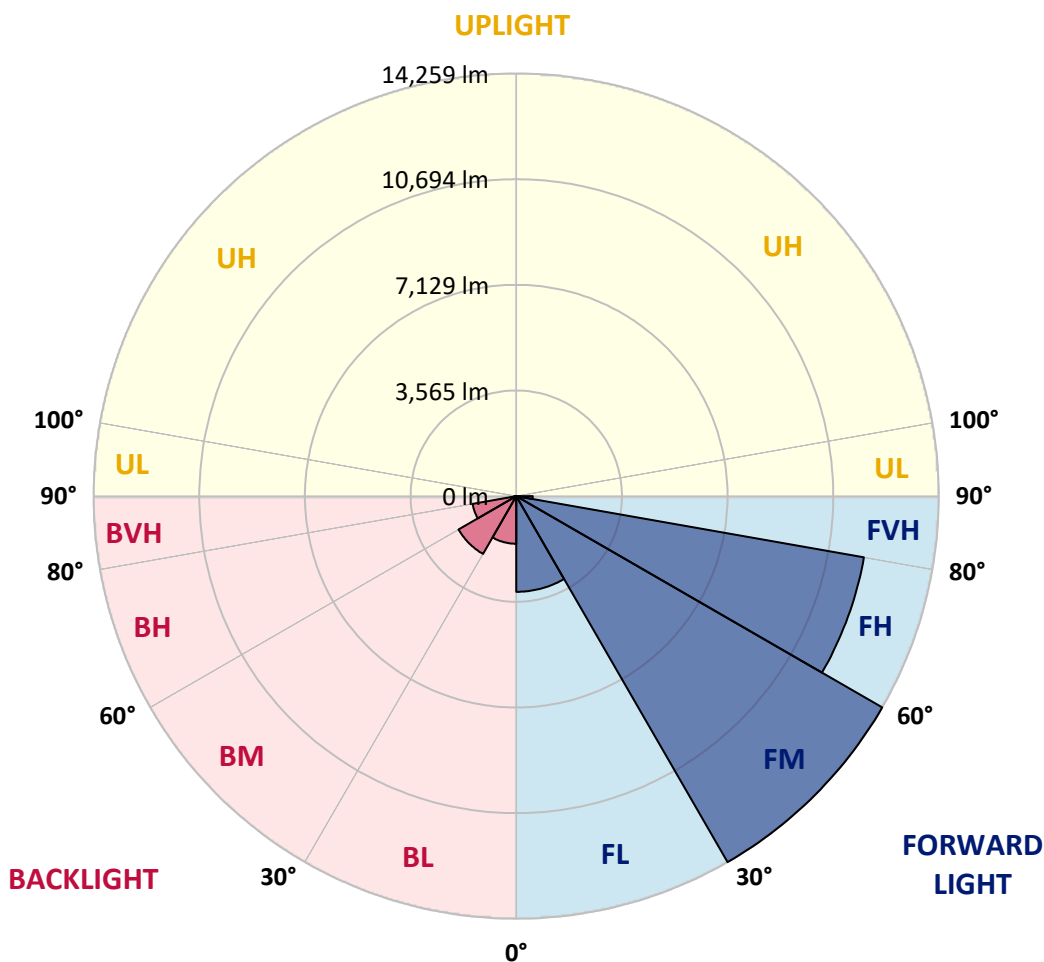
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3228.4	9.1			
FM (30°-60°)	14258.7	40.3			
FH (60°-80°)	11910.5	33.7			G4/12000
FVH (80°-90°)	557.8	1.6			G4/750
BL (0°-30°)	1606.9	4.5	B3/2500		
BM (30°-60°)	2248.9	6.4	B2/2500		
BH (60°-80°)	1496.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	74.1	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°	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4
2.5°	9992.2	10008.1	10008.1	10039.9	9932.4	9984.2	9976.2	9928.5	9944.4	9860.8	9777.2
5°	9709.5	9697.6	9761.3	9769.2	9852.8	9876.7	9896.6	9864.8	9872.7	9689.6	9610.0
7.5°	8985.0	8981.0	9088.5	9180.0	9355.2	9518.4	9625.9	9594.1	9637.9	9522.4	9335.3
10°	8125.1	8216.7	8328.1	8419.7	8742.1	8949.2	9227.8	9255.7	9422.9	9395.0	9056.6
12.5°	7480.2	7520.0	7603.6	7866.3	8160.9	8503.3	8901.4	8937.2	9100.4	9180.0	8885.5
15°	6950.7	6986.5	7094.0	7289.1	7619.5	8025.6	8531.2	8622.7	8949.2	8977.0	8662.5
17.5°	6564.6	6592.4	6664.1	6859.2	7129.9	7651.4	8129.1	8292.3	8722.2	8857.6	8431.6
20°	6413.3	6353.6	6393.4	6516.8	6787.5	7189.6	7806.6	7949.9	8499.3	8766.0	8212.7
22.5°	6345.6	6293.9	6317.8	6309.8	6524.8	6811.4	7460.3	7611.6	8288.3	8658.5	8017.6
25°	6397.4	6397.4	6373.5	6353.6	6377.5	6564.6	7086.1	7320.9	8005.7	8567.0	7818.6
27.5°	6676.0	6568.6	6580.5	6496.9	6473.0	6473.0	6918.9	7058.2	7914.1	8515.2	7655.3
30°	6855.2	6906.9	6910.9	6787.5	6664.1	6441.2	6763.6	6899.0	7838.5	8578.9	7559.8
32.5°	7313.0	7289.1	7221.4	7197.5	7014.4	6763.6	6839.3	6930.8	7794.7	8722.2	7587.7
35°	7770.8	7758.9	7762.8	7750.9	7559.8	7189.6	7042.3	7165.7	7874.3	8973.0	7683.2
37.5°	8244.5	8276.4	8411.7	8411.7	8208.7	7806.6	7611.6	7575.7	8164.9	9383.1	7910.1
40°	8718.3	8797.9	8969.1	9239.8	8953.1	8578.9	8264.4	8208.7	8515.2	9932.4	8455.5
42.5°	9172.1	9303.5	9641.8	10043.9	9948.4	9574.2	9156.2	9092.5	9235.8	10748.5	9215.9
45°	9753.3	9864.8	10398.2	11015.3	11146.6	10816.2	10326.6	10274.8	10266.8	11942.8	10262.9
47.5°	10637.1	10756.5	11289.9	11911.0	12317.0	12368.8	11819.4	11763.7	11572.6	13555.1	11795.5
50°	11743.8	11938.8	12388.7	13113.2	13702.4	14255.7	14100.5	13937.3	13563.1	15430.1	13738.2
52.5°	12551.9	12790.8	13399.8	14327.4	15366.4	16246.2	16803.5	16803.5	15943.7	17488.3	16075.0
55°	12766.9	12910.2	13678.5	15020.1	16799.6	19024.9	20191.3	20103.7	18778.1	19653.9	18794.0
57.5°	11911.0	12098.1	13029.6	14434.9	17552.0	21624.5	23555.2	23575.1	21875.3	22169.9	21477.2
60°	9554.3	9614.0	10712.7	12591.7	16827.4	23718.4	28149.2	28224.9	25398.4	24411.1	22842.6
62.5°	6604.4	6795.5	7623.5	9271.6	13941.3	23483.6	32580.0	32954.2	28220.9	25593.5	23057.6
65°	4347.2	4462.6	4904.5	5907.7	9705.5	20354.5	33957.4	35111.9	30378.5	25661.1	22157.9
67.5°	3152.9	3172.8	3304.2	3821.7	5832.1	14637.9	31604.7	33232.9	31186.7	25095.8	20048.0
70°	2547.8	2563.7	2611.5	2941.9	3766.0	9160.1	25776.6	28328.4	28762.3	22416.7	16146.7
72.5°	2070.1	2090.0	2149.7	2460.2	3105.1	5095.6	18849.7	21958.9	23396.0	16584.6	10732.6
75°	1628.2	1644.1	1787.4	2094.0	2918.0	3499.2	12504.1	15549.5	15744.6	9693.6	5023.9
77.5°	1114.7	1142.5	1317.7	1775.5	2746.8	3061.3	7794.7	9960.3	8937.2	3793.8	1727.7
80°	708.6	748.4	851.9	1345.6	2428.4	2922.0	4848.8	5947.5	3913.3	1297.8	832.0
82.5°	418.0	457.8	561.3	871.8	1906.9	2711.0	3415.6	3722.2	1835.2	664.8	501.6
85°	230.9	258.8	338.4	525.5	1118.6	2408.5	2734.9	2671.2	1051.0	354.3	314.5
87.5°	75.6	87.6	123.4	211.0	461.8	1134.6	1640.1	1540.6	545.4	163.2	123.4
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°	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4
2.5°	9721.5	9709.5	9530.4	9395.0	9164.1	8973.0	8897.4	8793.9	8789.9	8714.3	8694.4
5°	9486.6	9363.2	9088.5	8825.7	8415.7	8141.0	7890.2	7715.1	7643.4	7488.1	7452.3
7.5°	9184.0	9020.8	8598.8	8105.2	7623.5	7193.6	6803.4	6413.3	6194.3	6118.7	6035.1
10°	8869.5	8582.9	7957.9	7404.5	6731.8	6070.9	5457.9	4908.5	4609.9	4398.9	4307.4
12.5°	8618.7	8236.6	7440.4	6612.3	5724.6	4840.8	4128.2	3551.0	3212.6	3053.4	2981.7
15°	8336.1	7830.5	6875.1	5828.1	4721.4	3718.2	3021.5	2567.7	2432.4	2356.7	2344.8
17.5°	8037.5	7452.3	6262.0	5055.8	3742.1	2798.6	2348.8	2165.6	2105.9	2074.1	2058.1
20°	7758.9	7113.9	5633.0	4195.9	2930.0	2245.2	2034.3	1938.7	1934.7	1950.7	1946.7
22.5°	7364.7	6672.1	5012.0	3399.7	2340.8	1954.6	1819.3	1795.4	1819.3	1839.2	1847.2
25°	7141.8	6309.8	4319.3	2699.1	1934.7	1735.7	1691.9	1683.9	1719.8	1743.7	1739.7
27.5°	6910.9	5935.6	3674.4	2161.7	1695.9	1580.4	1572.5	1580.4	1616.3	1652.1	1648.1
30°	6731.8	5637.0	3069.3	1807.3	1512.8	1469.0	1461.0	1469.0	1488.9	1492.9	1492.9
32.5°	6584.5	5282.7	2555.8	1568.5	1401.3	1365.5	1373.4	1369.4	1373.4	1377.4	1381.4
35°	6496.9	5071.7	2133.8	1421.2	1309.7	1281.9	1277.9	1265.9	1269.9	1273.9	1269.9
37.5°	6684.0	4968.2	1799.4	1317.7	1246.0	1222.1	1214.2	1206.2	1194.3	1194.3	1194.3
40°	6966.6	4912.5	1596.4	1250.0	1198.3	1170.4	1146.5	1138.5	1138.5	1142.5	1146.5
42.5°	7528.0	5004.0	1457.0	1198.3	1138.5	1106.7	1082.8	1086.8	1098.7	1110.7	1102.7
45°	8340.1	5282.7	1393.3	1158.5	1102.7	1058.9	1043.0	1039.0	1051.0	1070.9	1086.8
47.5°	9403.0	5716.6	1369.4	1122.6	1078.8	1019.1	999.2	1011.2	1027.1	1054.9	1043.0
50°	11142.6	6692.0	1389.3	1090.8	1043.0	999.2	975.3	963.4	975.3	995.2	1003.2
52.5°	13415.8	8463.5	1465.0	1074.9	1019.1	983.3	943.5	923.6	935.5	951.4	951.4
55°	16134.7	10883.9	1676.0	1054.9	979.3	959.4	915.6	875.8	883.8	883.8	879.8
57.5°	18531.3	12711.1	1926.8	1027.1	955.4	927.6	871.8	824.1	816.1	820.1	824.1
60°	19606.1	13196.8	2046.2	1019.1	955.4	887.7	812.1	764.3	752.4	744.4	744.4
62.5°	19419.0	12356.8	1803.4	983.3	979.3	855.9	756.4	704.6	688.7	672.8	676.8
65°	18288.4	11158.6	1421.2	935.5	983.3	836.0	700.6	648.9	621.0	601.1	597.1
67.5°	16222.3	9526.4	1126.6	899.7	943.5	800.2	652.9	593.2	569.3	549.4	541.4
70°	12691.2	7468.2	979.3	851.9	847.9	712.6	597.1	545.4	509.6	485.7	485.7
72.5°	8228.6	4721.4	840.0	756.4	732.5	597.1	517.5	485.7	457.8	437.9	437.9
75°	3726.2	2193.5	676.8	633.0	597.1	477.7	437.9	422.0	398.1	378.2	378.2
77.5°	1337.6	935.5	505.6	497.6	445.9	370.2	354.3	342.4	326.4	306.5	306.5
80°	748.4	593.2	378.2	362.3	310.5	274.7	254.8	254.8	246.8	234.9	230.9
82.5°	473.7	386.2	278.7	242.8	203.0	183.1	175.2	171.2	167.2	151.3	147.3
85°	298.6	262.7	183.1	143.3	119.4	91.6	87.6	83.6	75.6	67.7	67.7
87.5°	135.4	151.3	71.7	43.8	31.8	19.9	11.9	4.0	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)