

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: P480560

Luminaire Tested: **IFLD-L-SA7A-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480560
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

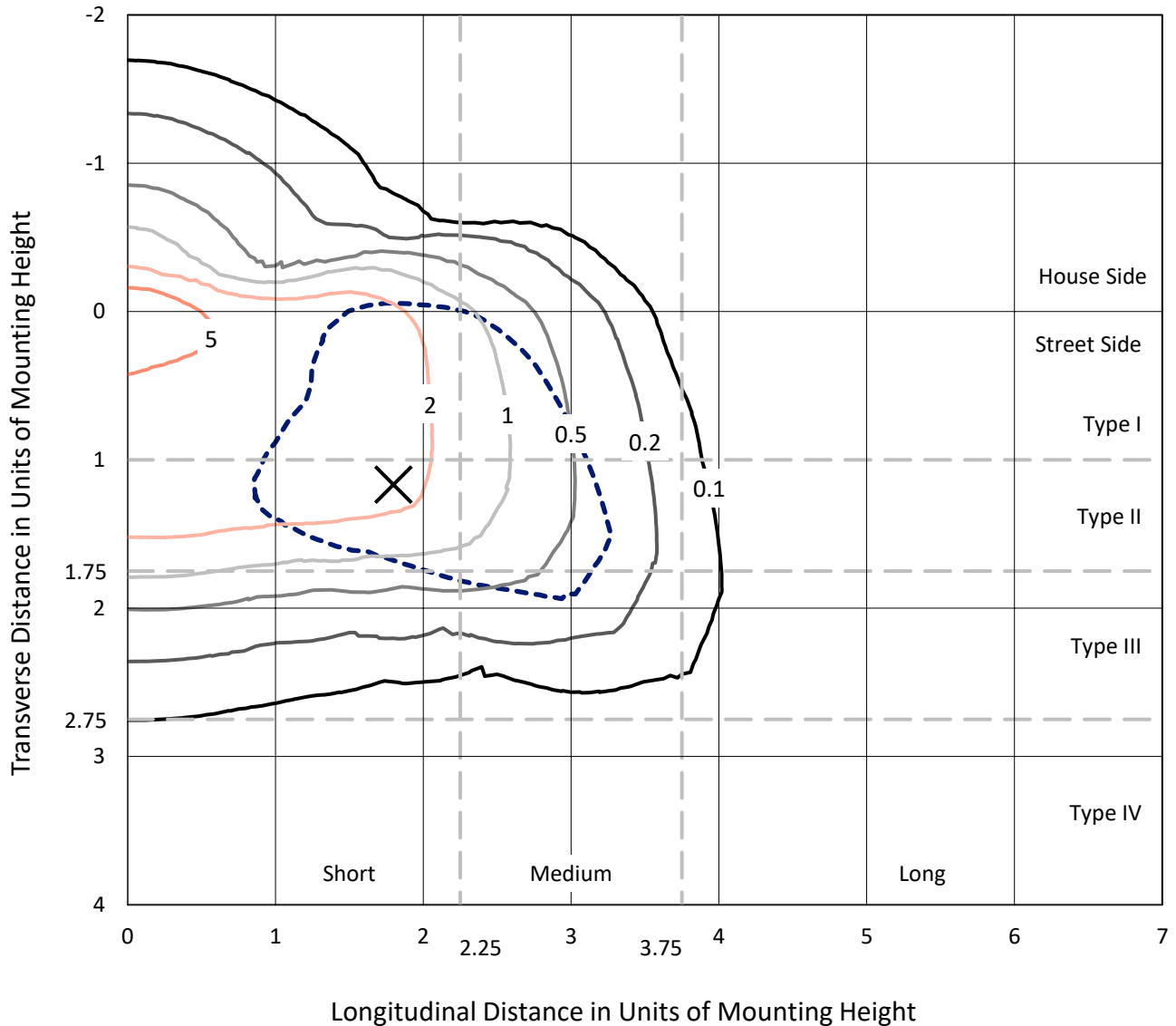
Lumens per Lamp: N/A
Luminaire Lumens: 31592.3 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

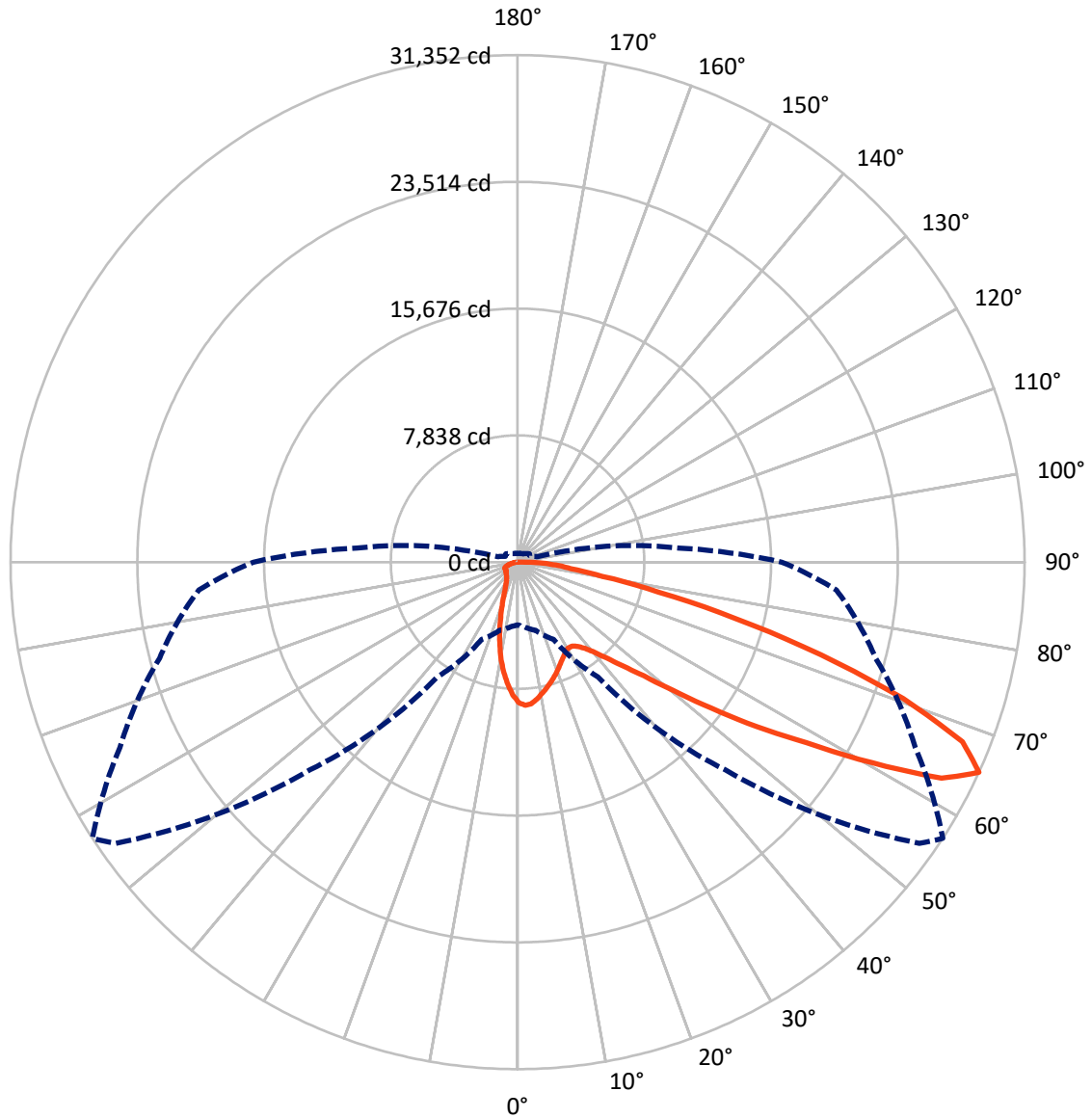
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	4845.0	0.0	4845.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26747.3	0.0	26747.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	31592.3	0.0	31592.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.5	2.3
10°-20°	1565.7	5.0
20°-30°	2024.3	6.4
30°-40°	2724.1	8.6
40°-50°	4343.7	13.7
50°-60°	7671.9	24.3
60°-70°	8440.2	26.7
70°-80°	3530.7	11.2
80°-90°	564.3	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°	31592.3	100.0
0°-180°	31592.3	100.0

Coefficient of Utilization



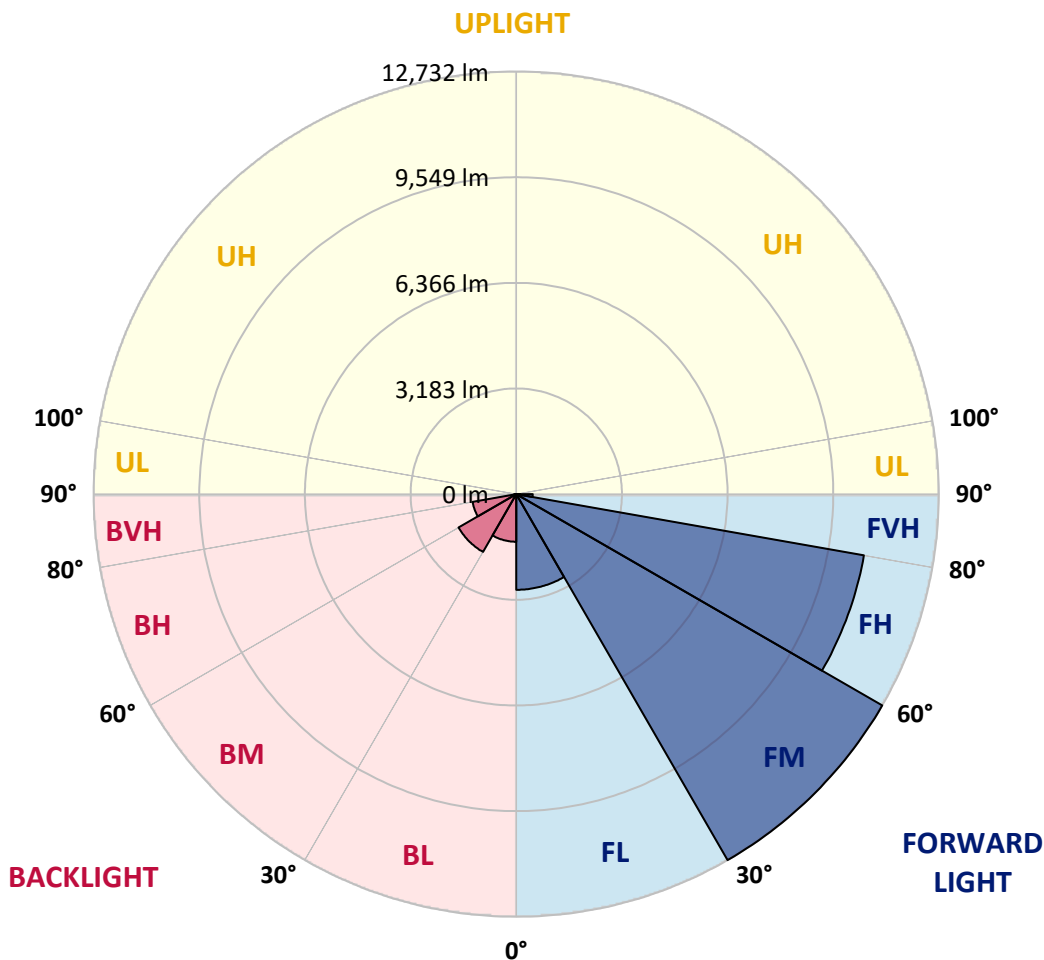
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2882.7	9.1			
FM (30°-60°)	12731.7	40.3			
FH (60°-80°)	10634.9	33.7			G4/12000
FVH (80°-90°)	498.1	1.6			G3/500
BL (0°-30°)	1434.8	4.5	B3/2500		
BM (30°-60°)	2008.0	6.4	B2/2500		
BH (60°-80°)	1335.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	66.2	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°	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4
2.5°	8922.0	8936.3	8936.3	8964.7	8868.7	8914.9	8907.8	8865.2	8879.4	8804.7	8730.1
5°	8669.7	8659.0	8715.9	8723.0	8797.6	8819.0	8836.7	8808.3	8815.4	8651.9	8580.8
7.5°	8022.7	8019.2	8115.1	8196.9	8353.3	8499.0	8595.0	8566.6	8605.7	8502.6	8335.5
10°	7254.9	7336.7	7436.2	7518.0	7805.9	7990.7	8239.6	8264.4	8413.7	8388.8	8086.7
12.5°	6679.1	6714.6	6789.3	7023.9	7286.9	7592.6	7948.1	7980.1	8125.8	8196.9	7933.9
15°	6206.3	6238.3	6334.3	6508.5	6803.5	7166.1	7617.5	7699.3	7990.7	8015.6	7734.8
17.5°	5861.5	5886.4	5950.4	6124.6	6366.3	6831.9	7258.5	7404.2	7788.1	7909.0	7528.6
20°	5726.5	5673.1	5708.7	5818.9	6060.6	6419.6	6970.6	7098.5	7589.1	7827.2	7333.1
22.5°	5666.0	5619.8	5641.1	5634.0	5826.0	6081.9	6661.3	6796.4	7400.7	7731.2	7159.0
25°	5712.2	5712.2	5690.9	5673.1	5694.5	5861.5	6327.2	6536.9	7148.3	7649.5	6981.2
27.5°	5961.1	5865.1	5875.7	5801.1	5779.8	5779.8	6177.9	6302.3	7066.5	7603.3	6835.5
30°	6121.0	6167.2	6170.8	6060.6	5950.4	5751.3	6039.3	6160.1	6999.0	7660.2	6750.2
32.5°	6529.8	6508.5	6448.0	6426.7	6263.2	6039.3	6106.8	6188.6	6959.9	7788.1	6775.1
35°	6938.6	6927.9	6931.5	6920.8	6750.2	6419.6	6288.1	6398.3	7031.0	8012.1	6860.4
37.5°	7361.6	7390.0	7510.9	7510.9	7329.6	6970.6	6796.4	6764.4	7290.5	8378.2	7063.0
40°	7784.6	7855.7	8008.5	8250.2	7994.3	7660.2	7379.3	7329.6	7603.3	8868.7	7550.0
42.5°	8189.8	8307.1	8609.2	8968.2	8882.9	8548.8	8175.6	8118.7	8246.7	9597.4	8228.9
45°	8708.8	8808.3	9284.6	9835.6	9952.9	9657.8	9220.6	9174.4	9167.3	10663.8	9163.8
47.5°	9497.9	9604.5	10080.8	10635.4	10997.9	11044.1	10553.6	10503.8	10333.2	12103.4	10532.3
50°	10486.1	10660.2	11061.9	11708.8	12234.9	12729.0	12590.4	12444.6	12110.5	13777.6	12266.9
52.5°	11207.6	11420.9	11964.8	12793.0	13720.7	14506.3	15004.0	15004.0	14236.2	15615.3	14353.5
55°	11399.6	11527.6	12213.6	13411.5	15000.4	16987.4	18028.9	17950.7	16767.0	17549.0	16781.3
57.5°	10635.4	10802.4	11634.2	12889.0	15672.2	19308.6	21032.6	21050.3	19532.5	19795.6	19177.1
60°	8531.0	8584.4	9565.4	11243.2	15025.3	21178.3	25134.6	25202.1	22678.3	21796.8	20396.3
62.5°	5897.1	6067.7	6807.1	8278.7	12448.2	20968.6	29090.8	29425.0	25198.5	22852.5	20588.2
65°	3881.6	3984.7	4379.3	5275.0	8666.1	18174.7	30320.7	31351.5	27125.1	22912.9	19784.9
67.5°	2815.2	2833.0	2950.3	3412.4	5207.5	13070.3	28219.9	29673.8	27846.7	22408.2	17901.0
70°	2274.9	2289.2	2331.8	2626.8	3362.6	8179.1	23016.0	25294.5	25682.0	20015.9	14417.4
72.5°	1848.4	1866.2	1919.5	2196.7	2772.6	4549.9	16831.0	19607.2	20890.4	14808.5	9583.2
75°	1453.8	1468.0	1596.0	1869.7	2605.5	3124.5	11165.0	13884.3	14058.4	8655.4	4485.9
77.5°	995.3	1020.2	1176.6	1585.4	2452.7	2733.5	6959.9	8893.6	7980.1	3387.5	1542.7
80°	632.7	668.3	760.7	1201.5	2168.3	2609.1	4329.5	5310.6	3494.2	1158.8	742.9
82.5°	373.2	408.8	501.2	778.5	1702.7	2420.7	3049.8	3323.5	1638.7	593.6	447.9
85°	206.2	231.0	302.1	469.2	998.8	2150.5	2442.0	2385.1	938.4	316.4	280.8
87.5°	67.5	78.2	110.2	188.4	412.3	1013.1	1464.5	1375.6	487.0	145.7	110.2
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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 CATALOG NUMBER: IFLD-L-SA7A-750-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4
2.5°	8680.3	8669.7	8509.7	8388.8	8182.7	8012.1	7944.5	7852.1	7848.6	7781.0	7763.2
5°	8470.6	8360.4	8115.1	7880.5	7514.4	7269.2	7045.2	6888.8	6824.8	6686.2	6654.2
7.5°	8200.5	8054.7	7677.9	7237.2	6807.1	6423.2	6074.8	5726.5	5531.0	5463.4	5388.8
10°	7919.6	7663.7	7105.6	6611.6	6010.8	5420.8	4873.4	4382.8	4116.2	3927.8	3846.1
12.5°	7695.7	7354.5	6643.5	5904.2	5111.5	4322.4	3686.1	3170.7	2868.6	2726.4	2662.4
15°	7443.3	6991.9	6138.8	5203.9	4215.8	3320.0	2697.9	2292.7	2171.9	2104.3	2093.7
17.5°	7176.7	6654.2	5591.4	4514.3	3341.3	2498.9	2097.2	1933.7	1880.4	1851.9	1837.7
20°	6927.9	6352.1	5029.8	3746.5	2616.2	2004.8	1816.4	1731.1	1727.5	1741.8	1738.2
22.5°	6576.0	5957.5	4475.2	3035.6	2090.1	1745.3	1624.5	1603.1	1624.5	1642.2	1649.3
25°	6376.9	5634.0	3856.7	2410.0	1727.5	1549.8	1510.7	1503.6	1535.6	1556.9	1553.4
27.5°	6170.8	5299.9	3280.9	1930.1	1514.3	1411.2	1404.1	1411.2	1443.2	1475.2	1471.6
30°	6010.8	5033.3	2740.6	1613.8	1350.7	1311.6	1304.5	1311.6	1329.4	1333.0	1333.0
32.5°	5879.3	4717.0	2282.1	1400.5	1251.2	1219.2	1226.3	1222.8	1226.3	1229.9	1233.4
35°	5801.1	4528.6	1905.3	1269.0	1169.5	1144.6	1141.0	1130.4	1133.9	1137.5	1133.9
37.5°	5968.2	4436.1	1606.7	1176.6	1112.6	1091.3	1084.2	1077.0	1066.4	1066.4	1066.4
40°	6220.5	4386.4	1425.4	1116.1	1069.9	1045.1	1023.7	1016.6	1016.6	1020.2	1023.7
42.5°	6721.7	4468.1	1301.0	1069.9	1016.6	988.2	966.9	970.4	981.1	991.7	984.6
45°	7446.9	4717.0	1244.1	1034.4	984.6	945.5	931.3	927.7	938.4	956.2	970.4
47.5°	8396.0	5104.4	1222.8	1002.4	963.3	910.0	892.2	902.9	917.1	942.0	931.3
50°	9949.3	5975.3	1240.6	974.0	931.3	892.2	870.9	860.2	870.9	888.6	895.8
52.5°	11979.0	7557.1	1308.1	959.7	910.0	878.0	842.4	824.7	835.3	849.5	849.5
55°	14406.8	9718.3	1496.5	942.0	874.4	856.7	817.6	782.0	789.1	789.1	785.6
57.5°	16546.6	11349.8	1720.4	917.1	853.1	828.2	778.5	735.8	728.7	732.2	735.8
60°	17506.4	11783.5	1827.1	910.0	853.1	792.7	725.1	682.5	671.8	664.7	664.7
62.5°	17339.3	11033.5	1610.2	878.0	874.4	764.2	675.4	629.2	614.9	600.7	604.3
65°	16329.8	9963.5	1269.0	835.3	878.0	746.5	625.6	579.4	554.5	536.7	533.2
67.5°	14485.0	8506.2	1006.0	803.3	842.4	714.5	583.0	529.6	508.3	490.5	483.4
70°	11332.1	6668.4	874.4	760.7	757.1	636.3	533.2	487.0	455.0	433.7	433.7
72.5°	7347.4	4215.8	750.0	675.4	654.0	533.2	462.1	433.7	408.8	391.0	391.0
75°	3327.1	1958.6	604.3	565.2	533.2	426.6	391.0	376.8	355.5	337.7	337.7
77.5°	1194.3	835.3	451.4	444.3	398.1	330.6	316.4	305.7	291.5	273.7	273.7
80°	668.3	529.6	337.7	323.5	277.3	245.3	227.5	227.5	220.4	209.7	206.2
82.5°	423.0	344.8	248.8	216.8	181.3	163.5	156.4	152.8	149.3	135.1	131.5
85°	266.6	234.6	163.5	128.0	106.6	81.8	78.2	74.6	67.5	60.4	60.4
87.5°	120.9	135.1	64.0	39.1	28.4	17.8	10.7	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)