

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: P480521

Luminaire Tested: **IFLD-L-SA7A-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

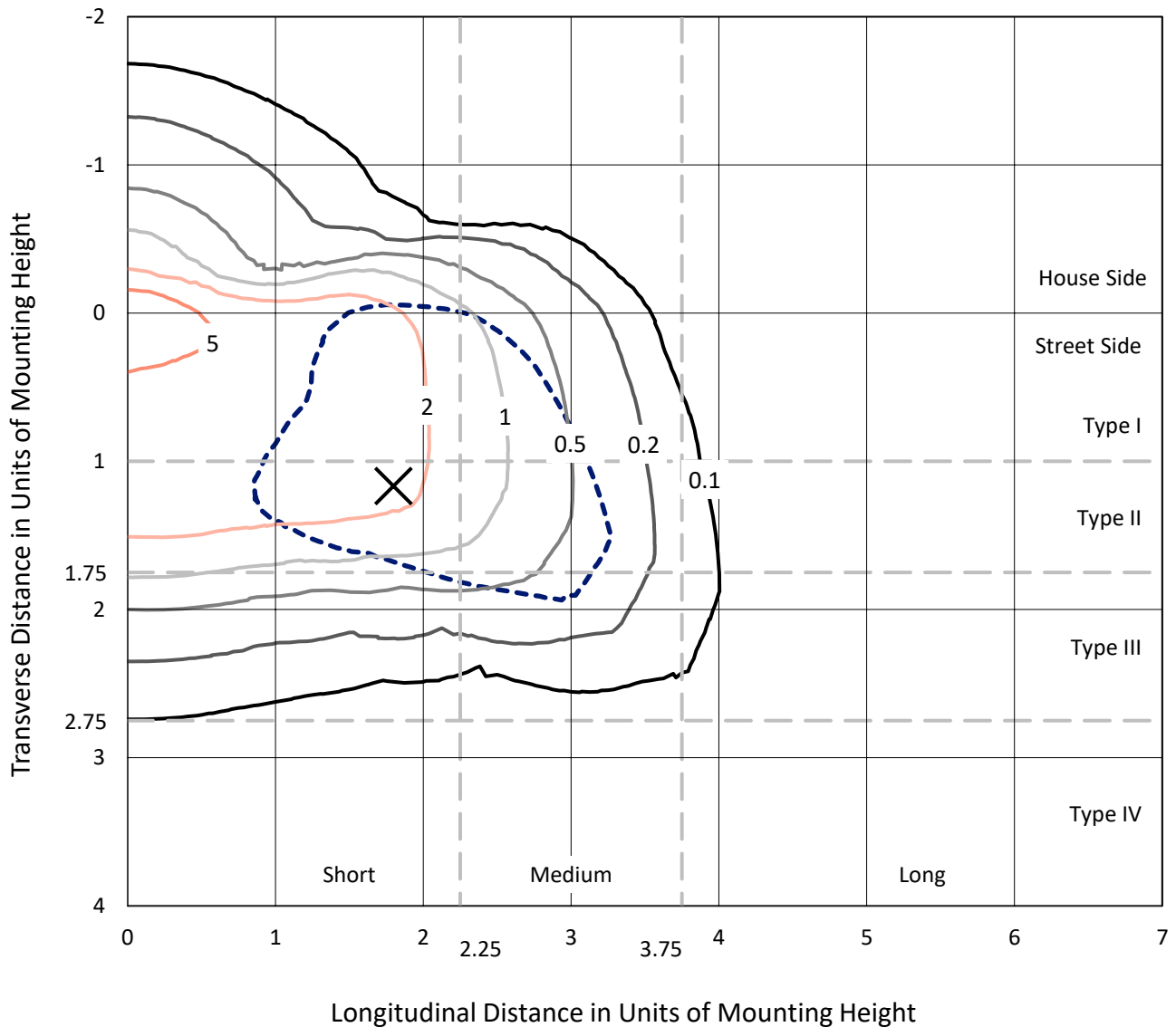
Lumens per Lamp: N/A
Luminaire Lumens: 30885.1 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

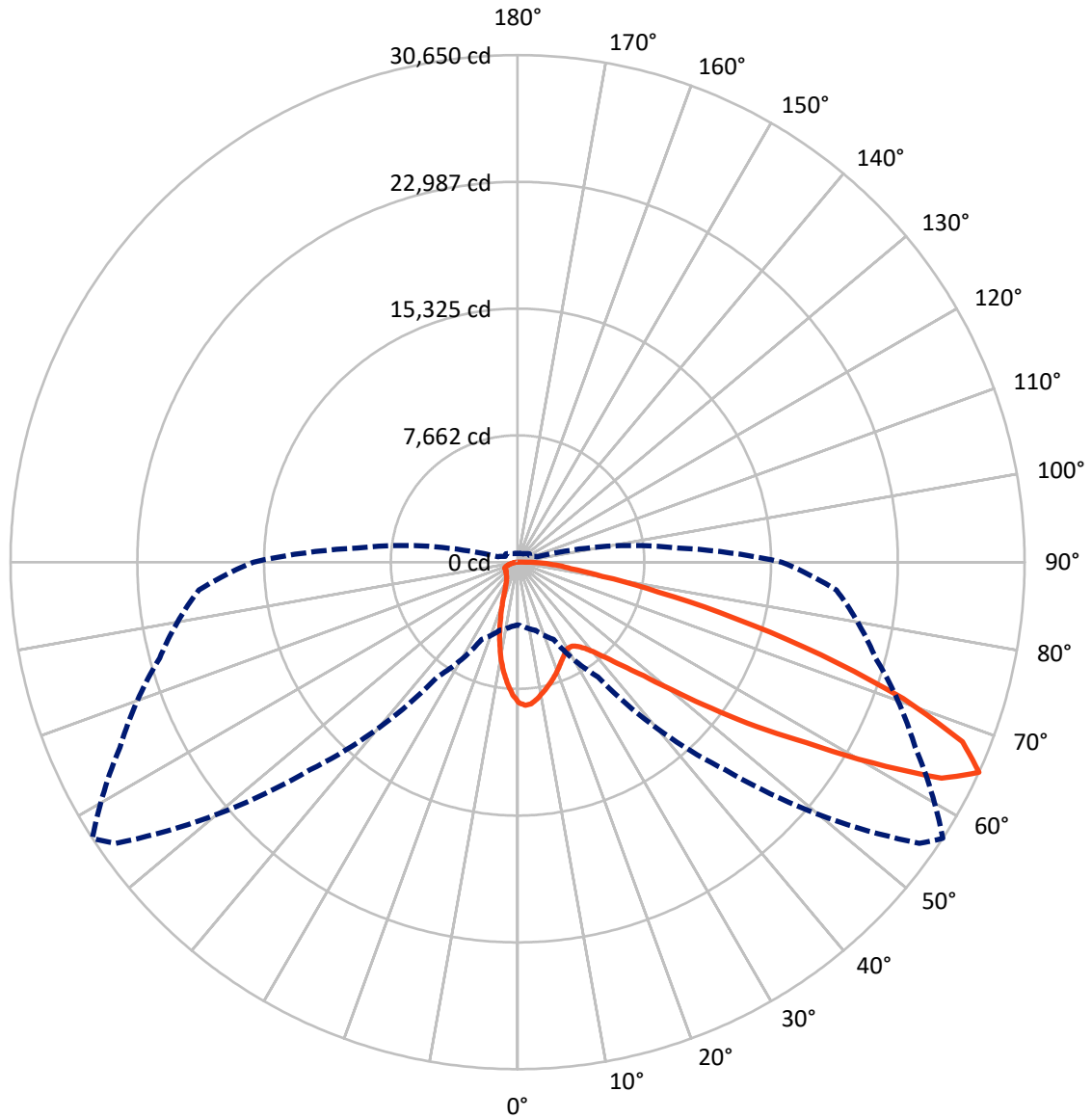
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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	4736.5	0.0	4736.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26148.5	0.0	26148.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	30885.1	0.0	30885.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.2	2.3
10°-20°	1530.7	5.0
20°-30°	1979.0	6.4
30°-40°	2663.1	8.6
40°-50°	4246.4	13.7
50°-60°	7500.2	24.3
60°-70°	8251.2	26.7
70°-80°	3451.6	11.2
80°-90°	551.6	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°	30885.1	100.0
0°-180°	30885.1	100.0

Coefficient of Utilization



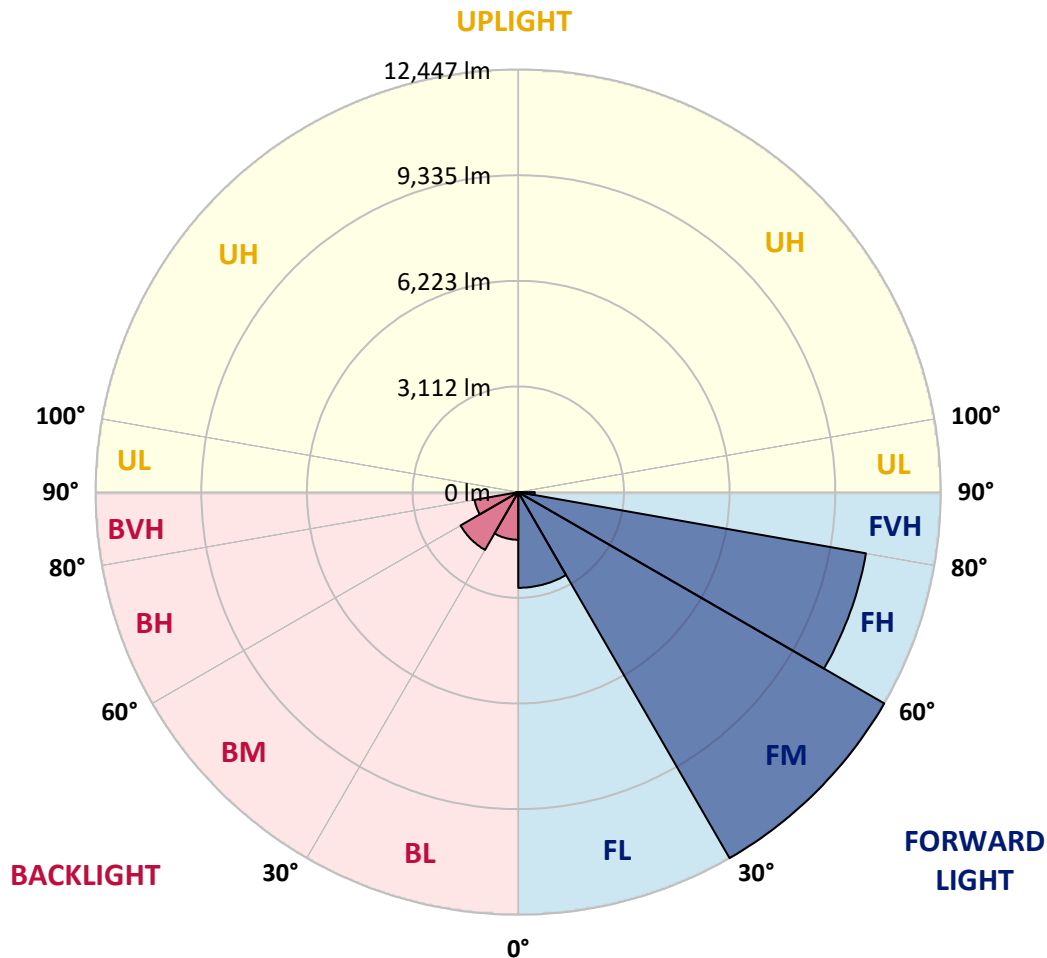
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2818.1	9.1			
FM (30°-60°)	12446.6	40.3			
FH (60°-80°)	10396.8	33.7			G4/12000
FVH (80°-90°)	486.9	1.6			G3/500
BL (0°-30°)	1402.7	4.5	B3/2500		
BM (30°-60°)	1963.1	6.4	B2/2500		
BH (60°-80°)	1306.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	64.7	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°	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9
2.5°	8722.3	8736.2	8736.2	8764.0	8670.2	8715.3	8708.4	8666.7	8680.6	8607.6	8534.6
5°	8475.6	8465.1	8520.7	8527.7	8600.7	8621.5	8638.9	8611.1	8618.0	8458.2	8388.7
7.5°	7843.1	7839.6	7933.5	8013.4	8166.3	8308.8	8402.6	8374.8	8413.0	8312.2	8148.9
10°	7092.5	7172.4	7269.7	7349.7	7631.1	7811.8	8055.1	8079.4	8225.4	8201.0	7905.7
12.5°	6529.6	6564.3	6637.3	6866.6	7123.8	7422.6	7770.1	7801.4	7943.9	8013.4	7756.2
15°	6067.4	6098.7	6192.5	6362.8	6651.2	7005.6	7447.0	7526.9	7811.8	7836.2	7561.6
17.5°	5730.3	5754.6	5817.2	5987.5	6223.8	6679.0	7096.0	7238.5	7613.8	7731.9	7360.1
20°	5598.3	5546.1	5580.9	5688.6	5924.9	6275.9	6814.5	6939.6	7419.2	7652.0	7169.0
22.5°	5539.2	5494.0	5514.9	5507.9	5695.6	5945.8	6512.2	6644.2	7235.0	7558.2	6998.7
25°	5584.4	5584.4	5563.5	5546.1	5567.0	5730.3	6185.5	6390.6	6988.3	7478.2	6824.9
27.5°	5827.6	5733.8	5744.2	5671.2	5650.4	5650.4	6039.6	6161.2	6908.3	7433.1	6682.5
30°	5984.0	6029.2	6032.6	5924.9	5817.2	5622.6	5904.1	6022.2	6842.3	7488.7	6599.1
32.5°	6383.6	6362.8	6303.7	6282.8	6123.0	5904.1	5970.1	6050.0	6804.1	7613.8	6623.4
35°	6783.2	6772.8	6776.3	6765.9	6599.1	6275.9	6147.3	6255.0	6873.6	7832.7	6706.8
37.5°	7196.8	7224.6	7342.7	7342.7	7165.5	6814.5	6644.2	6613.0	7127.3	8190.6	6904.9
40°	7610.3	7679.8	7829.2	8065.5	7815.3	7488.7	7214.1	7165.5	7433.1	8670.2	7380.9
42.5°	8006.4	8121.1	8416.5	8767.5	8684.1	8357.4	7992.5	7936.9	8062.0	9382.6	8044.7
45°	8513.8	8611.1	9076.8	9615.4	9730.1	9441.6	9014.2	8969.0	8962.1	10425.1	8958.6
47.5°	9285.3	9389.5	9855.2	10397.3	10751.7	10796.9	10317.3	10268.7	10101.9	11832.4	10296.5
50°	10251.3	10421.6	10814.3	11446.7	11961.0	12444.0	12308.5	12166.0	11839.4	13469.2	11992.3
52.5°	10956.7	11165.2	11696.9	12506.6	13413.6	14181.6	14668.1	14668.1	13917.5	15265.8	14032.1
55°	11144.4	11269.5	11940.2	13111.2	14664.6	16607.1	17625.3	17548.8	16391.7	17156.2	16405.6
57.5°	10397.3	10560.6	11373.7	12600.4	15321.4	18876.3	20561.7	20579.1	19095.2	19352.4	18747.7
60°	8340.0	8392.2	9351.3	10991.5	14688.9	20704.2	24571.9	24637.9	22170.6	21308.8	19939.7
62.5°	5765.1	5931.9	6654.7	8093.3	12169.5	20499.1	28439.6	28766.2	24634.4	22340.9	20127.3
65°	3794.7	3895.5	4281.2	5156.9	8472.1	17767.8	29641.9	30649.7	26517.9	22400.0	19342.0
67.5°	2752.2	2769.6	2884.3	3336.0	5090.9	12777.6	27588.2	29009.5	27223.3	21906.5	17500.2
70°	2224.0	2237.9	2279.6	2568.0	3287.4	7996.0	22500.7	24728.2	25107.0	19567.8	14094.7
72.5°	1807.0	1824.4	1876.5	2147.6	2710.5	4448.0	16454.2	19168.2	20422.7	14476.9	9368.7
75°	1421.3	1435.2	1560.3	1827.9	2547.2	3054.5	10915.0	13573.4	13743.7	8461.7	4385.5
77.5°	973.0	997.3	1150.2	1549.9	2397.8	2672.3	6804.1	8694.5	7801.4	3311.7	1508.2
80°	618.6	653.3	743.7	1174.6	2119.8	2550.7	4232.6	5191.7	3415.9	1132.9	726.3
82.5°	364.9	399.6	490.0	761.0	1664.5	2366.5	2981.6	3249.1	1602.0	580.3	437.9
85°	201.6	225.9	295.4	458.7	976.5	2102.4	2387.3	2331.7	917.4	309.3	274.5
87.5°	66.0	76.5	107.7	184.2	403.1	990.4	1431.7	1344.8	476.1	142.5	107.7
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°	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9	8492.9
2.5°	8486.0	8475.6	8319.2	8201.0	7999.5	7832.7	7766.7	7676.3	7672.8	7606.8	7589.4
5°	8281.0	8173.2	7933.5	7704.1	7346.2	7106.4	6887.5	6734.6	6672.0	6536.5	6505.2
7.5°	8016.9	7874.4	7506.0	7075.1	6654.7	6279.4	5938.8	5598.3	5407.1	5341.1	5268.1
10°	7742.3	7492.1	6946.6	6463.5	5876.3	5299.4	4764.3	4284.7	4024.1	3839.9	3760.0
12.5°	7523.4	7189.8	6494.8	5772.0	4997.1	4225.6	3603.6	3099.7	2804.3	2665.3	2602.8
15°	7276.7	6835.4	6001.4	5087.4	4121.4	3245.7	2637.5	2241.4	2123.2	2057.2	2046.8
17.5°	7016.1	6505.2	5466.2	4413.3	3266.5	2442.9	2050.3	1890.4	1838.3	1810.5	1796.6
20°	6772.8	6209.9	4917.2	3662.7	2557.6	1959.9	1775.7	1692.3	1688.9	1702.8	1699.3
22.5°	6428.8	5824.1	4375.0	2967.7	2043.3	1706.2	1588.1	1567.2	1588.1	1605.5	1612.4
25°	6234.2	5507.9	3770.4	2356.1	1688.9	1515.1	1476.9	1469.9	1501.2	1522.1	1518.6
27.5°	6032.6	5181.3	3207.4	1886.9	1480.4	1379.6	1372.6	1379.6	1410.9	1442.1	1438.7
30°	5876.3	4920.6	2679.2	1577.7	1320.5	1282.3	1275.3	1282.3	1299.7	1303.1	1303.1
32.5°	5747.7	4611.4	2231.0	1369.2	1223.2	1191.9	1198.9	1195.4	1198.9	1202.4	1205.8
35°	5671.2	4427.2	1862.6	1240.6	1143.3	1119.0	1115.5	1105.1	1108.5	1112.0	1108.5
37.5°	5834.6	4336.8	1570.7	1150.2	1087.7	1066.8	1059.9	1052.9	1042.5	1042.5	1042.5
40°	6081.3	4288.2	1393.5	1091.2	1046.0	1021.7	1000.8	993.9	993.9	997.3	1000.8
42.5°	6571.3	4368.1	1271.9	1046.0	993.9	966.1	945.2	948.7	959.1	969.5	962.6
45°	7280.2	4611.4	1216.3	1011.2	962.6	924.4	910.5	907.0	917.4	934.8	948.7
47.5°	8208.0	4990.1	1195.4	980.0	941.7	889.6	872.2	882.7	896.6	920.9	910.5
50°	9726.6	5841.5	1212.8	952.2	910.5	872.2	851.4	841.0	851.4	868.8	875.7
52.5°	11710.8	7387.9	1278.8	938.3	889.6	858.3	823.6	806.2	816.6	830.5	830.5
55°	14084.3	9500.7	1463.0	920.9	854.9	837.5	799.3	764.5	771.5	771.5	768.0
57.5°	16176.2	11095.7	1681.9	896.6	834.0	809.7	761.0	719.3	712.4	715.9	719.3
60°	17114.5	11519.7	1786.2	889.6	834.0	774.9	708.9	667.2	656.8	649.8	649.8
62.5°	16951.1	10786.5	1574.2	858.3	854.9	747.1	660.3	615.1	601.2	587.3	590.8
65°	15964.2	9740.5	1240.6	816.6	858.3	729.8	611.6	566.4	542.1	524.7	521.3
67.5°	14160.7	8315.7	983.4	785.4	823.6	698.5	569.9	517.8	496.9	479.6	472.6
70°	11078.4	6519.1	854.9	743.7	740.2	622.0	521.3	476.1	444.8	424.0	424.0
72.5°	7182.9	4121.4	733.2	660.3	639.4	521.3	451.8	424.0	399.6	382.3	382.3
75°	3252.6	1914.7	590.8	552.5	521.3	417.0	382.3	368.4	347.5	330.1	330.1
77.5°	1167.6	816.6	441.3	434.4	389.2	323.2	309.3	298.9	285.0	267.6	267.6
80°	653.3	517.8	330.1	316.2	271.1	239.8	222.4	222.4	215.5	205.0	201.6
82.5°	413.5	337.1	243.3	212.0	177.2	159.9	152.9	149.4	146.0	132.1	128.6
85°	260.6	229.4	159.9	125.1	104.3	79.9	76.5	73.0	66.0	59.1	59.1
87.5°	118.2	132.1	62.6	38.2	27.8	17.4	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)