

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: P480409

Luminaire Tested: **IFLD-L-SA8A-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480409
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

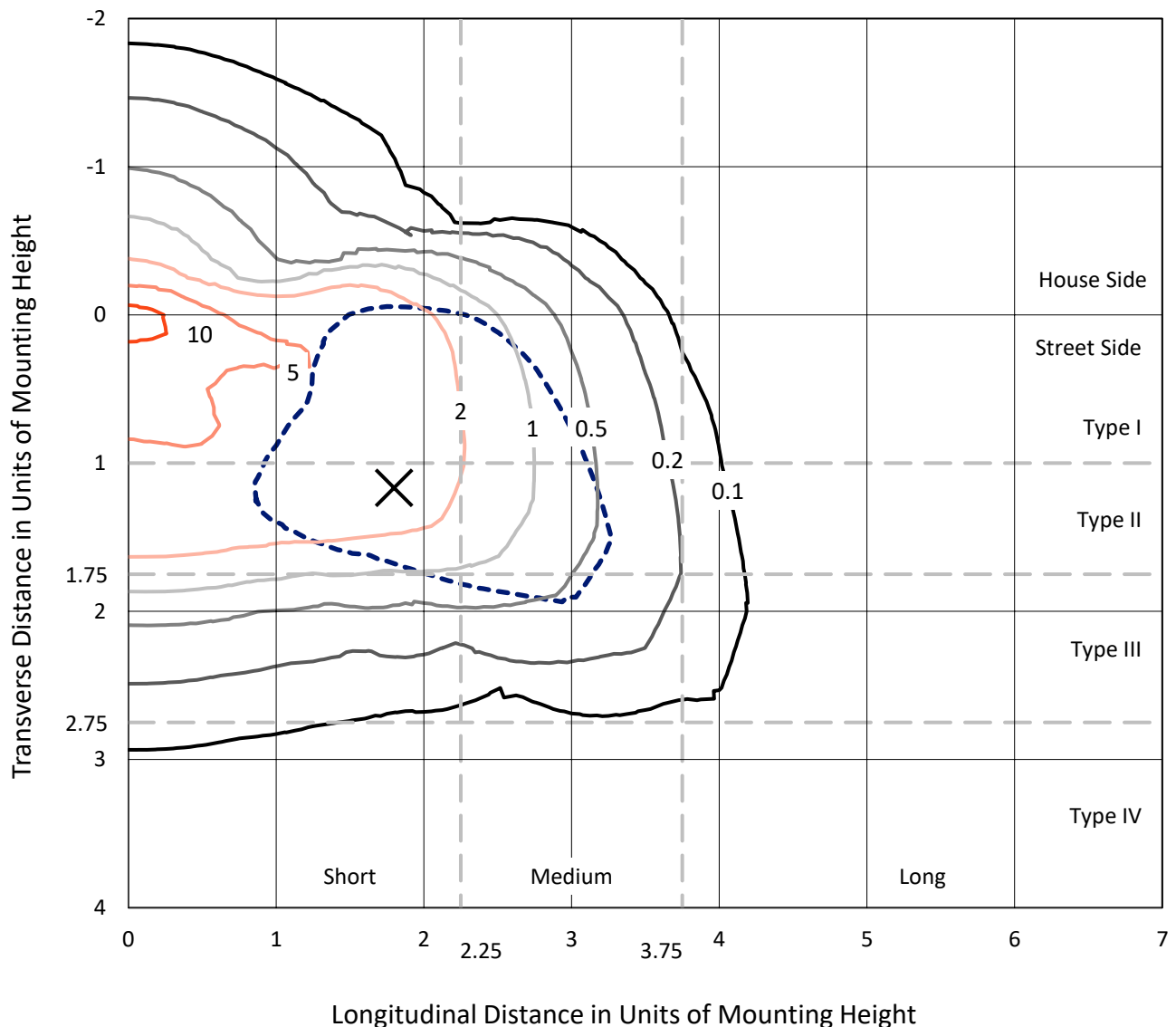
Lumens per Lamp: N/A
Luminaire Lumens: 28268.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

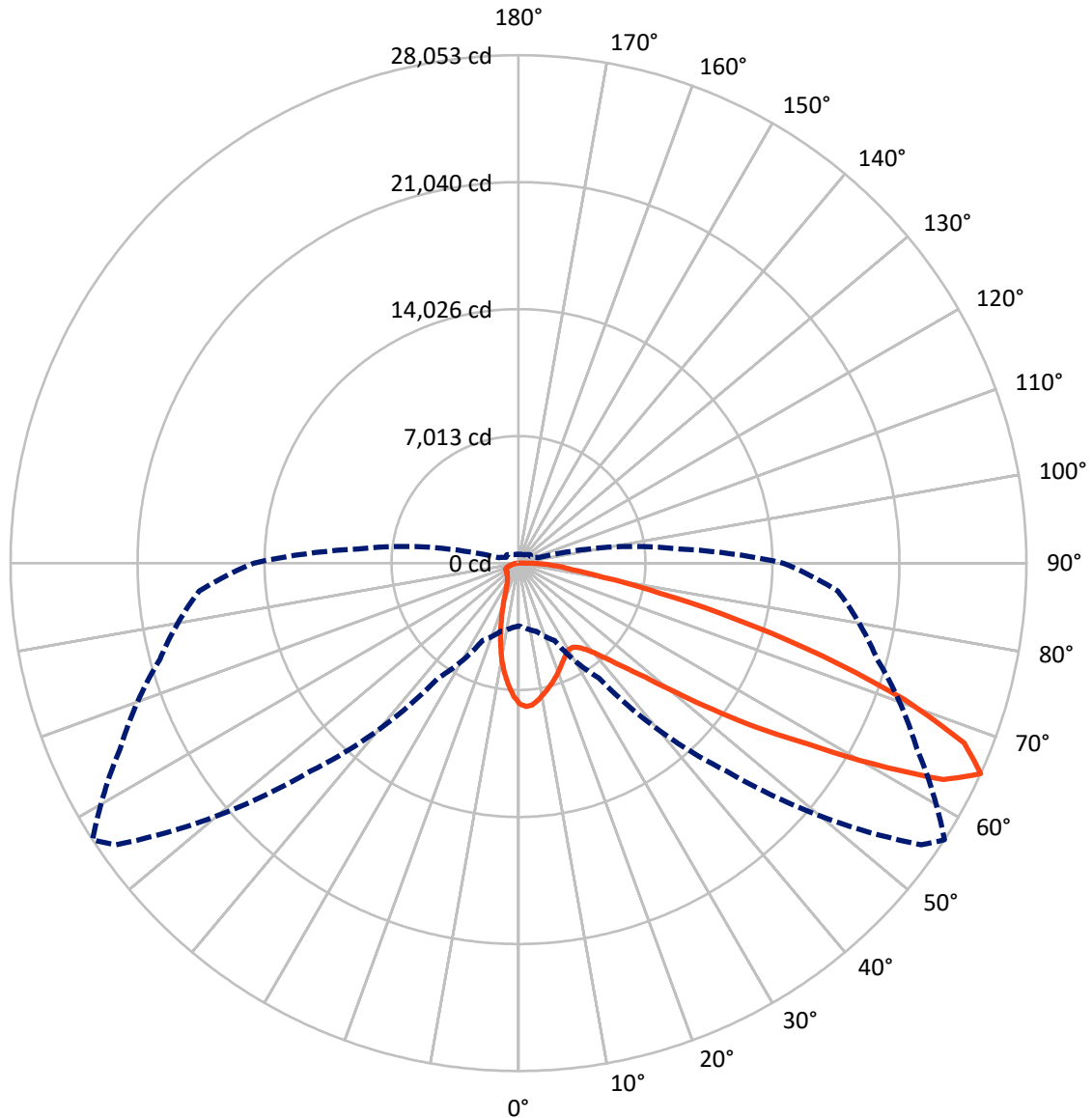
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	4335.2	0.0	4335.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23933.0	0.0	23933.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	28268.2	0.0	28268.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.0	2.3
10°-20°	1401.0	5.0
20°-30°	1811.3	6.4
30°-40°	2437.4	8.6
40°-50°	3886.6	13.7
50°-60°	6864.7	24.3
60°-70°	7552.1	26.7
70°-80°	3159.2	11.2
80°-90°	504.9	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°	28268.2	100.0
0°-180°	28268.2	100.0

Coefficient of Utilization



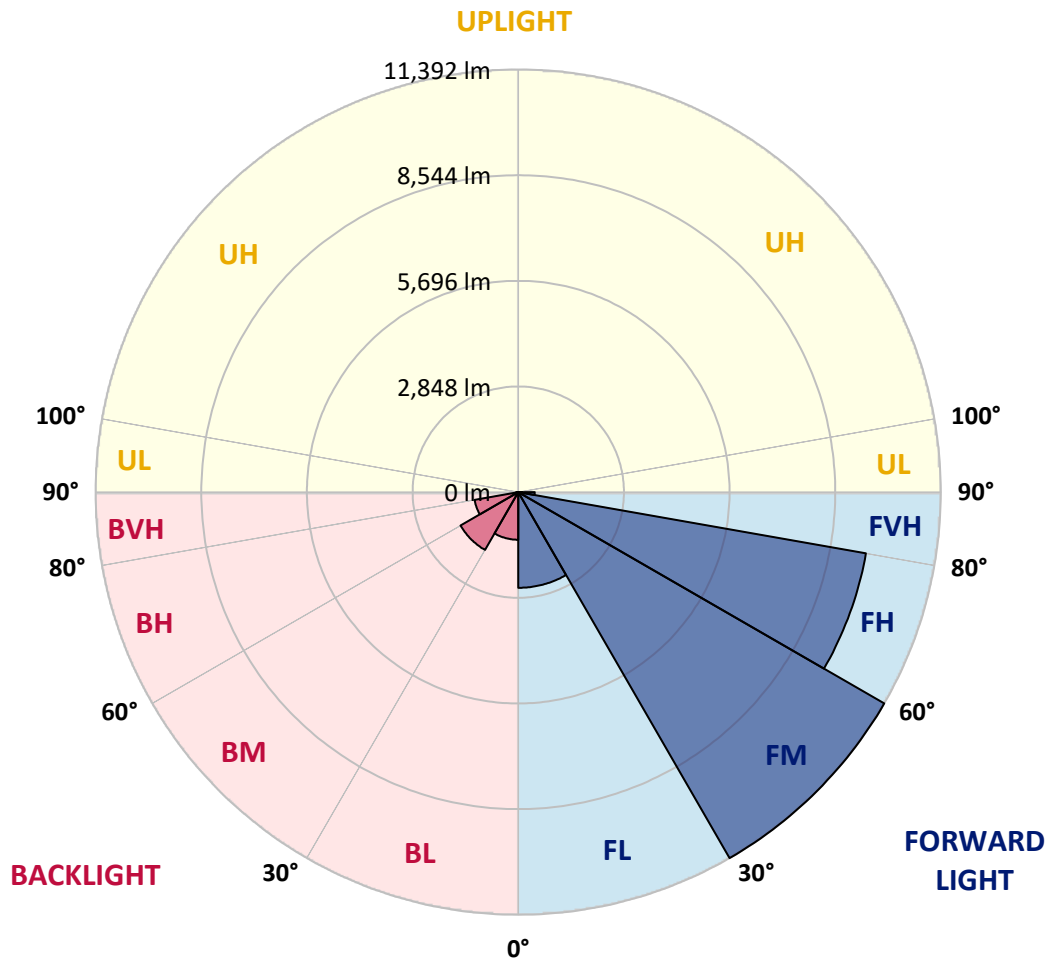
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.4	9.1			
FM (30°-60°)	11392.0	40.3			
FH (60°-80°)	9515.9	33.7			G4/12000
FVH (80°-90°)	445.7	1.6			G3/500
BL (0°-30°)	1283.9	4.5	B3/2500		
BM (30°-60°)	1796.7	6.4	B2/2500		
BH (60°-80°)	1195.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	59.2	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°	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4
2.5°	7983.3	7996.0	7996.0	8021.4	7935.6	7976.9	7970.6	7932.4	7945.1	7878.3	7811.5
5°	7757.5	7747.9	7798.8	7805.2	7872.0	7891.0	7906.9	7881.5	7887.9	7741.6	7677.9
7.5°	7178.6	7175.4	7261.3	7334.4	7474.4	7604.8	7690.7	7665.2	7700.2	7608.0	7458.5
10°	6491.6	6564.7	6653.8	6726.9	6984.6	7150.0	7372.6	7394.9	7528.5	7506.2	7235.8
12.5°	5976.3	6008.1	6074.9	6284.8	6520.2	6793.7	7111.8	7140.4	7270.8	7334.4	7099.1
15°	5553.3	5581.9	5667.8	5823.7	6087.6	6412.1	6816.0	6889.2	7150.0	7172.2	6921.0
17.5°	5244.8	5267.1	5324.3	5480.2	5696.4	6113.1	6494.8	6625.2	6968.7	7076.8	6736.5
20°	5123.9	5076.2	5108.0	5206.6	5422.9	5744.1	6237.1	6351.6	6790.6	7003.7	6561.6
22.5°	5069.9	5028.5	5047.6	5041.2	5213.0	5442.0	5960.4	6081.3	6622.0	6917.8	6405.7
25°	5111.2	5111.2	5092.1	5076.2	5095.3	5244.8	5661.4	5849.1	6396.2	6844.6	6246.7
27.5°	5333.8	5248.0	5257.5	5190.7	5171.6	5171.6	5527.9	5639.2	6323.0	6803.3	6116.3
30°	5477.0	5518.3	5521.5	5422.9	5324.3	5146.2	5403.8	5512.0	6262.6	6854.2	6039.9
32.5°	5842.7	5823.7	5769.6	5750.5	5604.2	5403.8	5464.2	5537.4	6227.6	6968.7	6062.2
35°	6208.5	6199.0	6202.1	6192.6	6039.9	5744.1	5626.5	5725.1	6291.2	7169.0	6138.5
37.5°	6587.0	6612.4	6720.6	6720.6	6558.4	6237.1	6081.3	6052.7	6523.4	7496.6	6319.8
40°	6965.5	7029.1	7165.9	7382.1	7153.1	6854.2	6602.9	6558.4	6803.3	7935.6	6755.6
42.5°	7328.1	7433.0	7703.4	8024.6	7948.3	7649.3	7315.4	7264.5	7379.0	8587.6	7363.1
45°	7792.4	7881.5	8307.7	8800.7	8905.6	8641.7	8250.4	8209.1	8202.7	9541.8	8199.6
47.5°	8498.5	8593.9	9020.1	9516.3	9840.7	9882.1	9443.2	9398.6	9246.0	10829.9	9424.1
50°	9382.7	9538.6	9898.0	10476.9	10947.6	11389.7	11265.6	11135.2	10836.3	12328.0	10976.2
52.5°	10028.4	10219.2	10705.9	11446.9	12277.1	12980.0	13425.3	13425.3	12738.3	13972.3	12843.2
55°	10200.1	10314.6	10928.5	12000.4	13422.1	15200.0	16131.9	16062.0	15002.8	15702.6	15015.6
57.5°	9516.3	9665.8	10410.1	11532.8	14023.2	17277.0	18819.5	18835.4	17477.3	17712.7	17159.3
60°	7633.4	7681.1	8559.0	10060.2	13444.3	18949.9	22489.9	22550.4	20292.2	19503.4	18250.2
62.5°	5276.6	5429.3	6090.8	7407.6	11138.4	18762.3	26029.9	26328.9	22547.2	20448.0	18422.0
65°	3473.2	3565.4	3918.5	4720.0	7754.3	16262.3	27130.4	28052.8	24271.1	20502.1	17703.2
67.5°	2519.0	2534.9	2639.9	3053.4	4659.6	11695.0	25250.7	26551.5	24916.7	20050.4	16017.4
70°	2035.6	2048.3	2086.5	2350.5	3008.8	7318.5	20594.3	22633.1	22979.7	17909.9	12900.5
72.5°	1653.9	1669.8	1717.5	1965.6	2480.9	4071.2	15060.1	17544.1	18692.3	13250.3	8574.9
75°	1300.9	1313.6	1428.1	1673.0	2331.4	2795.7	9990.2	12423.4	12579.2	7744.7	4013.9
77.5°	890.6	912.8	1052.8	1418.5	2194.6	2445.9	6227.6	7957.8	7140.4	3031.1	1380.4
80°	566.1	598.0	680.6	1075.0	1940.2	2334.6	3874.0	4751.8	3126.5	1036.9	664.7
82.5°	334.0	365.8	448.5	696.5	1523.5	2166.0	2728.9	2973.8	1466.3	531.2	400.8
85°	184.5	206.7	270.3	419.8	893.7	1924.3	2185.1	2134.2	839.7	283.1	251.3
87.5°	60.4	70.0	98.6	168.6	368.9	906.5	1310.4	1230.9	435.7	130.4	98.6
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°	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4	7773.4
2.5°	7767.0	7757.5	7614.3	7506.2	7321.7	7169.0	7108.6	7025.9	7022.7	6962.3	6946.4
5°	7579.3	7480.7	7261.3	7051.4	6723.8	6504.3	6303.9	6164.0	6106.7	5982.7	5954.1
7.5°	7337.6	7207.2	6870.1	6475.7	6090.8	5747.3	5435.6	5123.9	4949.0	4888.6	4821.8
10°	7086.3	6857.3	6358.0	5915.9	5378.4	4850.4	4360.6	3921.7	3683.1	3514.5	3441.4
12.5°	6886.0	6580.6	5944.5	5283.0	4573.7	3867.6	3298.3	2837.1	2566.7	2439.5	2382.3
15°	6660.2	6256.2	5492.9	4656.4	3772.2	2970.7	2414.1	2051.5	1943.3	1882.9	1873.4
17.5°	6421.6	5954.1	5003.1	4039.3	2989.8	2236.0	1876.5	1730.2	1682.5	1657.1	1644.4
20°	6199.0	5683.7	4500.5	3352.3	2340.9	1793.9	1625.3	1548.9	1545.8	1558.5	1555.3
22.5°	5884.1	5330.7	4004.4	2716.2	1870.2	1561.7	1453.5	1434.4	1453.5	1469.4	1475.8
25°	5706.0	5041.2	3450.9	2156.4	1545.8	1386.7	1351.7	1345.4	1374.0	1393.1	1389.9
27.5°	5521.5	4742.3	2935.7	1727.1	1354.9	1262.7	1256.3	1262.7	1291.3	1319.9	1316.8
30°	5378.4	4503.7	2452.2	1444.0	1208.6	1173.6	1167.3	1173.6	1189.5	1192.7	1192.7
32.5°	5260.7	4220.6	2041.9	1253.2	1119.6	1090.9	1097.3	1094.1	1097.3	1100.5	1103.7
35°	5190.7	4052.1	1704.8	1135.5	1046.4	1024.1	1021.0	1011.4	1014.6	1017.8	1014.6
37.5°	5340.2	3969.4	1437.6	1052.8	995.5	976.4	970.1	963.7	954.2	954.2	954.2
40°	5566.0	3924.8	1275.4	998.7	957.4	935.1	916.0	909.6	909.6	912.8	916.0
42.5°	6014.5	3998.0	1164.1	957.4	909.6	884.2	865.1	868.3	877.8	887.4	881.0
45°	6663.3	4220.6	1113.2	925.6	881.0	846.0	833.3	830.1	839.7	855.6	868.3
47.5°	7512.5	4567.3	1094.1	896.9	861.9	814.2	798.3	807.9	820.6	842.9	833.3
50°	8902.5	5346.6	1110.0	871.5	833.3	798.3	779.2	769.7	779.2	795.1	801.5
52.5°	10718.6	6761.9	1170.5	858.8	814.2	785.6	753.8	737.9	747.4	760.2	760.2
55°	12890.9	8695.7	1339.0	842.9	782.4	766.5	731.5	699.7	706.1	706.1	702.9
57.5°	14805.6	10155.6	1539.4	820.6	763.3	741.1	696.5	658.4	652.0	655.2	658.4
60°	15664.4	10543.6	1634.8	814.2	763.3	709.3	648.8	610.7	601.1	594.8	594.8
62.5°	15514.9	9872.5	1440.8	785.6	782.4	683.8	604.3	563.0	550.2	537.5	540.7
65°	14611.6	8915.2	1135.5	747.4	785.6	667.9	559.8	518.4	496.2	480.3	477.1
67.5°	12960.9	7611.1	900.1	718.8	753.8	639.3	521.6	473.9	454.8	438.9	432.6
70°	10139.7	5966.8	782.4	680.6	677.5	569.3	477.1	435.7	407.1	388.0	388.0
72.5°	6574.3	3772.2	671.1	604.3	585.2	477.1	413.5	388.0	365.8	349.9	349.9
75°	2977.0	1752.5	540.7	505.7	477.1	381.7	349.9	337.1	318.1	302.2	302.2
77.5°	1068.7	747.4	403.9	397.6	356.2	295.8	283.1	273.5	260.8	244.9	244.9
80°	598.0	473.9	302.2	289.4	248.1	219.5	203.6	203.6	197.2	187.7	184.5
82.5°	378.5	308.5	222.6	194.0	162.2	146.3	139.9	136.8	133.6	120.9	117.7
85°	238.5	209.9	146.3	114.5	95.4	73.2	70.0	66.8	60.4	54.1	54.1
87.5°	108.1	120.9	57.3	35.0	25.4	15.9	9.5	3.2	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)