

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: P480437

Luminaire Tested: **IFLD-S-SA6E-730-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480437  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-730-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

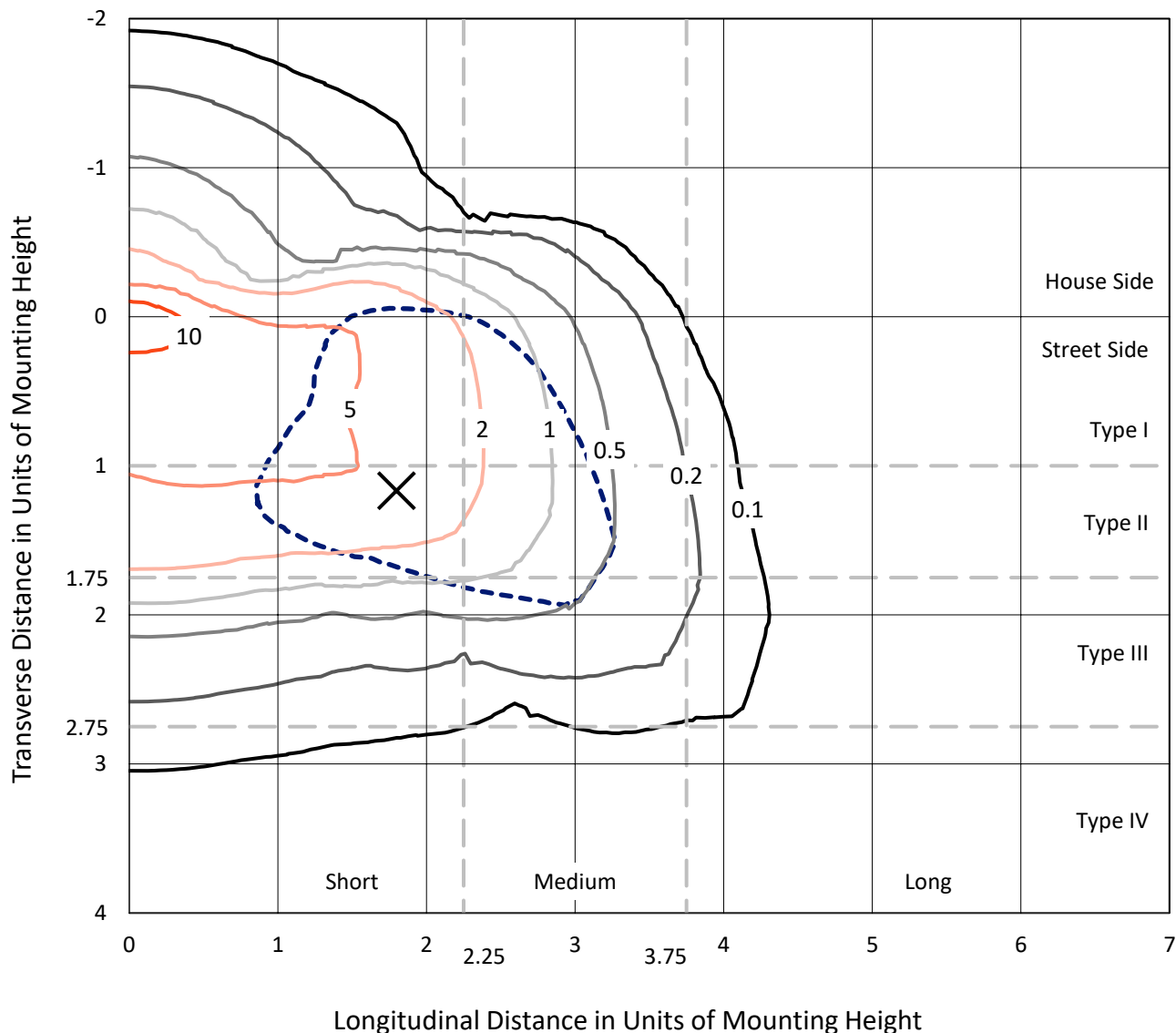
Lumens per Lamp: N/A  
Luminaire Lumens: 47543 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2  
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

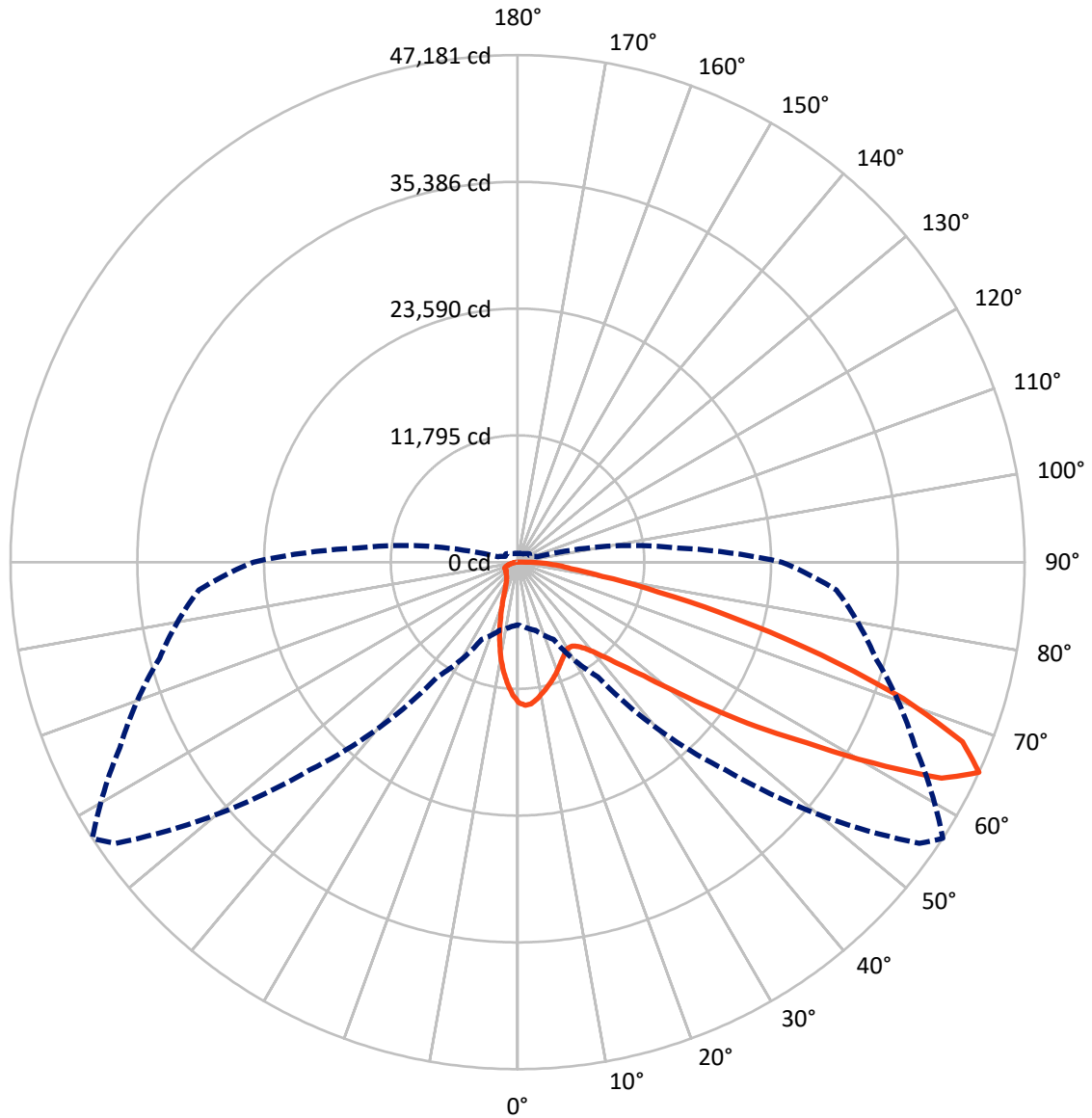
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 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
<b>House Side</b>	Lumens	7291.2	0.0	7291.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	40251.8	0.0	40251.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	47543.0	0.0	47543.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.8	2.3
10°-20°	2356.2	5.0
20°-30°	3046.4	6.4
30°-40°	4099.4	8.6
40°-50°	6536.7	13.7
50°-60°	11545.4	24.3
60°-70°	12701.5	26.7
70°-80°	5313.3	11.2
80°-90°	849.2	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°	47543.0	100.0
0°-180°	47543.0	100.0

**Coefficient of Utilization**



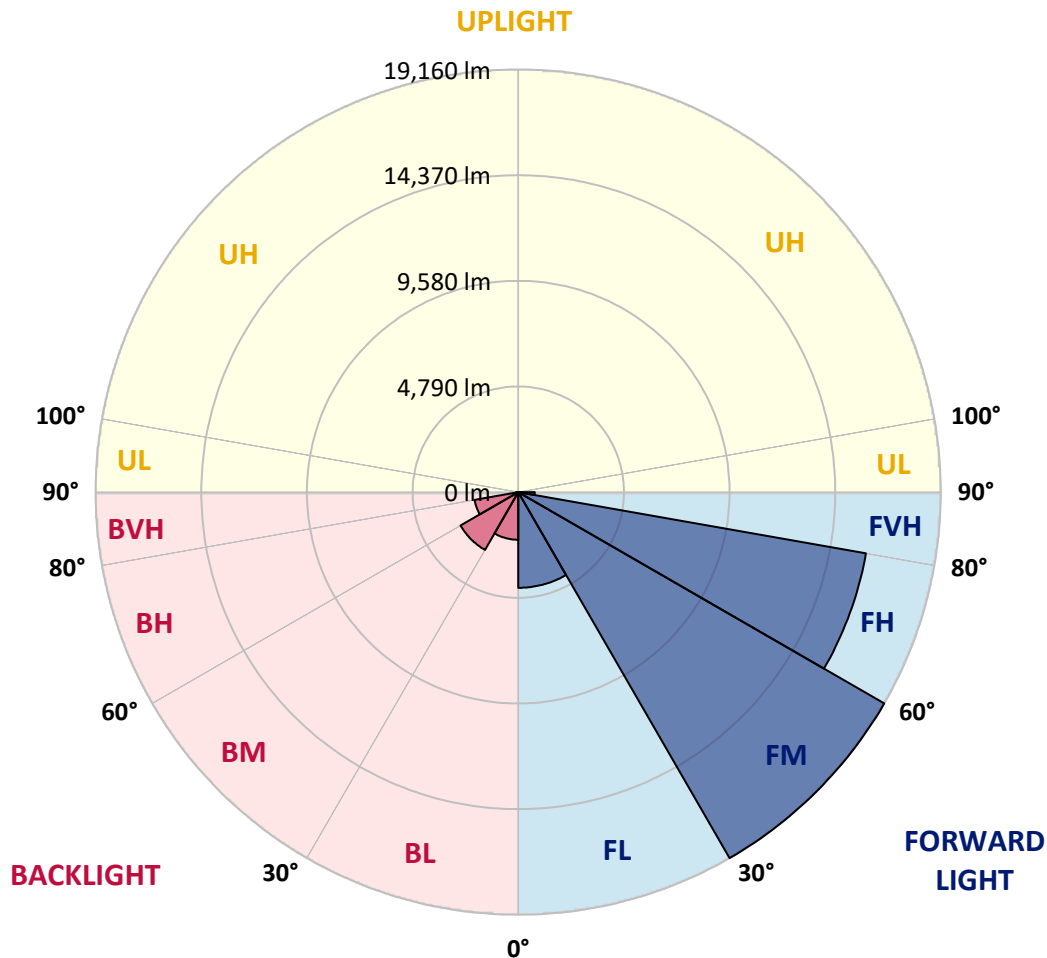
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4338.1	9.1			
FM (30°-60°)	19159.7	40.3			
FH (60°-80°)	16004.4	33.7			G5
FVH (80°-90°)	749.5	1.6			G4/750
BL (0°-30°)	2159.3	4.5	B3/2500		
BM (30°-60°)	3021.8	6.4	B3/5000		
BH (60°-80°)	2010.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	99.6	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6
2.5°	13426.7	13448.1	13448.1	13490.9	13346.5	13416.0	13405.3	13341.1	13362.5	13250.2	13137.8
5°	13046.9	13030.8	13116.4	13127.1	13239.5	13271.6	13298.3	13255.5	13266.2	13020.2	12913.2
7.5°	12073.3	12068.0	12212.4	12335.4	12570.8	12790.1	12934.6	12891.8	12950.6	12795.5	12544.1
10°	10917.9	11040.9	11190.7	11313.7	11747.0	12025.2	12399.6	12437.1	12661.7	12624.3	12169.6
12.5°	10051.3	10104.8	10217.1	10570.2	10966.0	11426.1	11961.0	12009.1	12228.5	12335.4	11939.6
15°	9339.8	9388.0	9532.4	9794.5	10238.5	10784.2	11463.5	11586.5	12025.2	12062.6	11640.0
17.5°	8821.0	8858.4	8954.7	9216.8	9580.6	10281.3	10923.2	11142.6	11720.3	11902.2	11329.8
20°	8617.7	8537.5	8590.9	8756.8	9120.5	9660.8	10489.9	10682.5	11420.7	11779.1	11035.6
22.5°	8526.8	8457.2	8489.3	8478.6	8767.5	9152.6	10024.6	10227.8	11137.2	11634.7	10773.5
25°	8596.3	8596.3	8564.2	8537.5	8569.5	8821.0	9521.7	9837.3	10757.4	11511.7	10506.0
27.5°	8970.7	8826.3	8842.4	8730.0	8697.9	8697.9	9297.1	9484.3	10634.4	11442.1	10286.7
30°	9211.5	9281.0	9286.4	9120.5	8954.7	8655.1	9088.4	9270.3	10532.7	11527.7	10158.3
32.5°	9826.6	9794.5	9703.6	9671.5	9425.4	9088.4	9190.1	9313.1	10473.9	11720.3	10195.7
35°	10441.8	10425.7	10431.1	10415.1	10158.3	9660.8	9462.9	9628.7	10580.9	12057.3	10324.1
37.5°	11078.4	11121.2	11303.0	11303.0	11030.2	10489.9	10227.8	10179.7	10971.4	12608.3	10629.0
40°	11714.9	11821.9	12051.9	12415.7	12030.5	11527.7	11105.1	11030.2	11442.1	13346.5	11361.9
42.5°	12324.7	12501.3	12956.0	13496.2	13367.9	12865.0	12303.3	12217.8	12410.3	14443.1	12383.6
45°	13105.7	13255.5	13972.3	14801.5	14978.0	14534.0	13876.0	13806.5	13795.8	16047.8	13790.4
47.5°	14293.3	14453.8	15170.6	16005.1	16550.7	16620.2	15882.0	15807.1	15550.4	18214.3	15849.9
50°	15780.4	16042.5	16647.0	17620.5	18412.2	19155.8	18947.2	18727.8	18225.0	20733.8	18460.4
52.5°	16866.3	17187.2	18005.7	19252.1	20648.2	21830.4	22579.3	22579.3	21423.9	23499.4	21600.4
55°	17155.1	17347.7	18380.1	20182.8	22574.0	25564.2	27131.6	27013.9	25232.6	26409.4	25254.0
57.5°	16005.1	16256.5	17508.2	19396.5	23585.0	29057.3	31651.7	31678.4	29394.3	29790.1	28859.4
60°	12838.3	12918.5	14394.9	16919.8	22611.4	31871.0	37824.8	37926.4	34128.4	32801.8	30694.2
62.5°	8874.5	9131.2	10243.9	12458.5	18733.2	31555.4	43778.5	44281.4	37921.1	34390.5	30983.0
65°	5841.4	5996.5	6590.3	7938.3	13041.5	27350.9	45629.4	47180.7	40820.4	34481.5	29774.1
67.5°	4236.6	4263.4	4439.9	5135.3	7836.7	19669.3	42467.9	44655.8	41906.3	33721.9	26939.0
70°	3423.5	3444.9	3509.1	3953.1	5060.4	12308.7	34636.6	38065.5	38648.6	30121.8	21696.7
72.5°	2781.6	2808.4	2888.6	3305.9	4172.4	6847.1	25328.8	29506.6	31437.7	22285.1	14421.7
75°	2187.9	2209.3	2401.8	2813.7	3921.0	4702.0	16802.1	20894.3	21156.4	13025.5	6750.8
77.5°	1497.8	1535.2	1770.6	2385.8	3691.0	4113.6	10473.9	13383.9	12009.1	5097.9	2321.6
80°	952.2	1005.7	1144.7	1808.1	3263.1	3926.4	6515.4	7991.8	5258.3	1743.9	1118.0
82.5°	561.7	615.2	754.2	1171.5	2562.3	3642.9	4589.7	5001.6	2466.0	893.3	674.0
85°	310.3	347.7	454.7	706.1	1503.1	3236.3	3675.0	3589.4	1412.2	476.1	422.6
87.5°	101.6	117.7	165.8	283.5	620.5	1524.5	2203.9	2070.2	732.9	219.3	165.8
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°	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6	13073.6
2.5°	13062.9	13046.9	12806.2	12624.3	12314.0	12057.3	11955.6	11816.6	11811.2	11709.6	11682.8
5°	12747.3	12581.5	12212.4	11859.4	11308.4	10939.3	10602.3	10366.9	10270.6	10062.0	10013.9
7.5°	12340.8	12121.5	11554.4	10891.1	10243.9	9666.2	9141.9	8617.7	8323.5	8221.8	8109.5
10°	11918.2	11533.1	10693.2	9949.7	9045.6	8157.7	7333.9	6595.7	6194.5	5911.0	5787.9
12.5°	11581.2	11067.7	9997.8	8885.2	7692.3	6504.7	5547.2	4771.6	4316.9	4102.9	4006.6
15°	11201.4	10522.0	9238.2	7831.3	6344.2	4996.2	4060.1	3450.3	3268.4	3166.8	3150.7
17.5°	10800.2	10013.9	8414.4	6793.6	5028.3	3760.5	3156.1	2910.0	2829.8	2787.0	2765.6
20°	10425.7	9559.2	7569.2	5638.1	3937.1	3017.0	2733.5	2605.1	2599.8	2621.1	2615.8
22.5°	9896.2	8965.4	6734.7	4568.3	3145.4	2626.5	2444.6	2412.5	2444.6	2471.4	2482.1
25°	9596.6	8478.6	5804.0	3626.8	2599.8	2332.3	2273.4	2262.7	2310.9	2343.0	2337.6
27.5°	9286.4	7975.8	4937.4	2904.7	2278.8	2123.7	2113.0	2123.7	2171.8	2220.0	2214.6
30°	9045.6	7574.6	4124.3	2428.6	2032.7	1973.9	1963.2	1973.9	2000.6	2006.0	2006.0
32.5°	8847.7	7098.5	3434.2	2107.6	1882.9	1834.8	1845.5	1840.2	1845.5	1850.9	1856.2
35°	8730.0	6815.0	2867.2	1909.7	1759.9	1722.5	1717.1	1701.1	1706.4	1711.8	1706.4
37.5°	8981.4	6675.9	2417.9	1770.6	1674.3	1642.2	1631.5	1620.8	1604.8	1604.8	1604.8
40°	9361.2	6601.0	2145.1	1679.7	1610.1	1572.7	1540.6	1529.9	1529.9	1535.2	1540.6
42.5°	10115.5	6724.0	1957.8	1610.1	1529.9	1487.1	1455.0	1460.4	1476.4	1492.4	1481.8
45°	11206.7	7098.5	1872.2	1556.6	1481.8	1422.9	1401.5	1396.2	1412.2	1439.0	1460.4
47.5°	12635.0	7681.6	1840.2	1508.5	1449.7	1369.4	1342.7	1358.7	1380.1	1417.6	1401.5
50°	14972.6	8992.1	1866.9	1465.7	1401.5	1342.7	1310.6	1294.5	1310.6	1337.3	1348.0
52.5°	18027.1	11372.6	1968.5	1444.3	1369.4	1321.3	1267.8	1241.0	1257.1	1278.5	1278.5
55°	21680.6	14624.9	2252.0	1417.6	1315.9	1289.2	1230.3	1176.8	1187.5	1187.5	1182.2
57.5°	24900.9	17080.3	2589.1	1380.1	1283.8	1246.4	1171.5	1107.3	1096.6	1102.0	1107.3
60°	26345.2	17732.9	2749.5	1369.4	1283.8	1192.9	1091.3	1027.1	1011.0	1000.3	1000.3
62.5°	26093.8	16604.2	2423.2	1321.3	1315.9	1150.1	1016.4	946.8	925.4	904.0	909.4
65°	24574.6	14994.0	1909.7	1257.1	1321.3	1123.3	941.5	871.9	834.5	807.7	802.4
67.5°	21798.3	12800.8	1513.8	1208.9	1267.8	1075.2	877.3	797.0	764.9	738.2	727.5
70°	17053.5	10035.3	1315.9	1144.7	1139.4	957.5	802.4	732.9	684.7	652.6	652.6
72.5°	11057.0	6344.2	1128.7	1016.4	984.3	802.4	695.4	652.6	615.2	588.4	588.4
75°	5006.9	2947.5	909.4	850.5	802.4	641.9	588.4	567.0	534.9	508.2	508.2
77.5°	1797.4	1257.1	679.4	668.7	599.1	497.5	476.1	460.0	438.6	411.9	411.9
80°	1005.7	797.0	508.2	486.8	417.2	369.1	342.4	342.4	331.7	315.6	310.3
82.5°	636.6	518.9	374.4	326.3	272.8	246.1	235.4	230.0	224.7	203.3	197.9
85°	401.2	353.1	246.1	192.6	160.5	123.0	117.7	112.3	101.6	90.9	90.9
87.5°	181.9	203.3	96.3	58.8	42.8	26.7	16.0	5.3	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)