

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: P480683

Luminaire Tested: **IFLD-L-SA8B-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480683  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

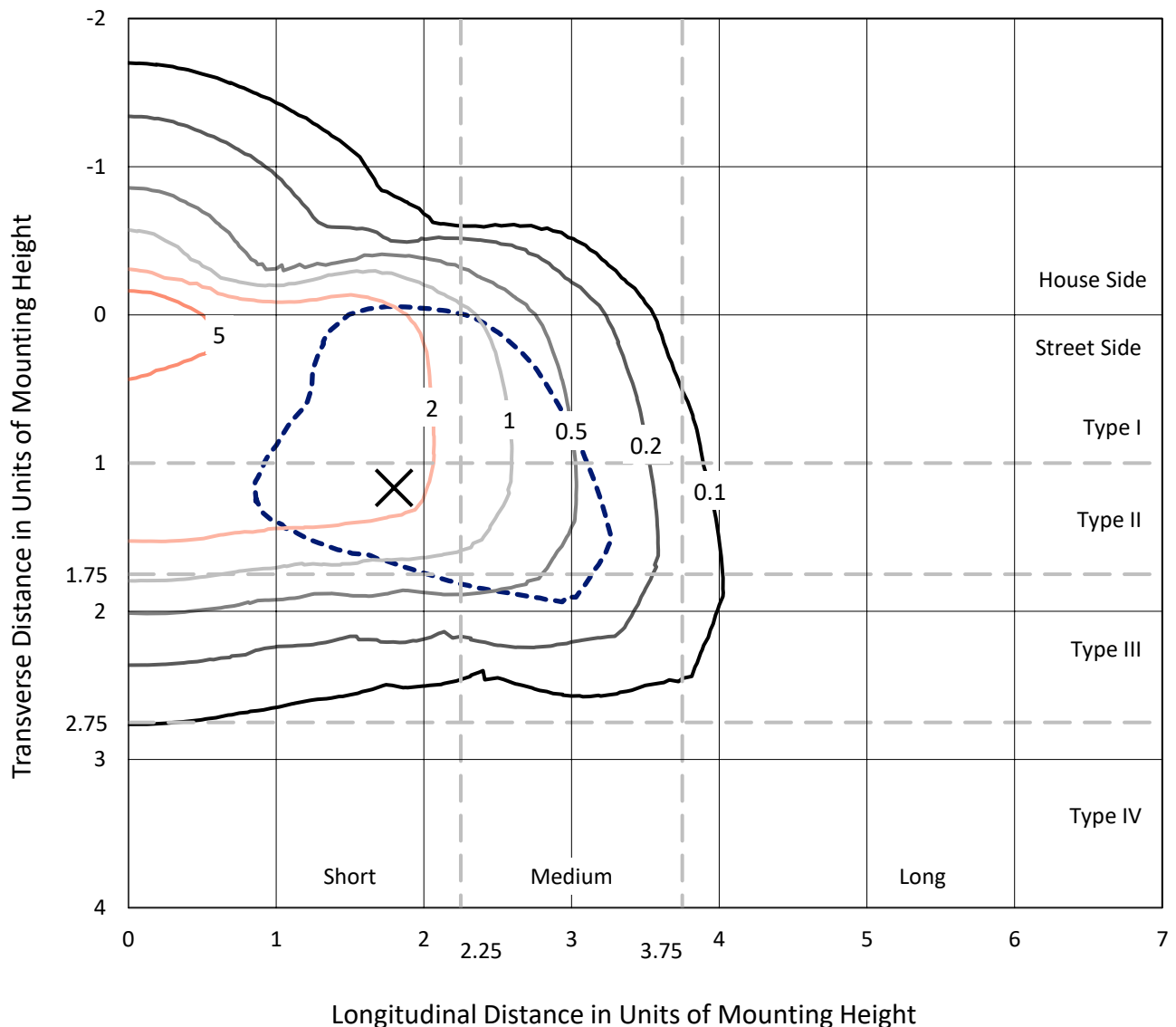
Lumens per Lamp: N/A  
Luminaire Lumens: 31909.9 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

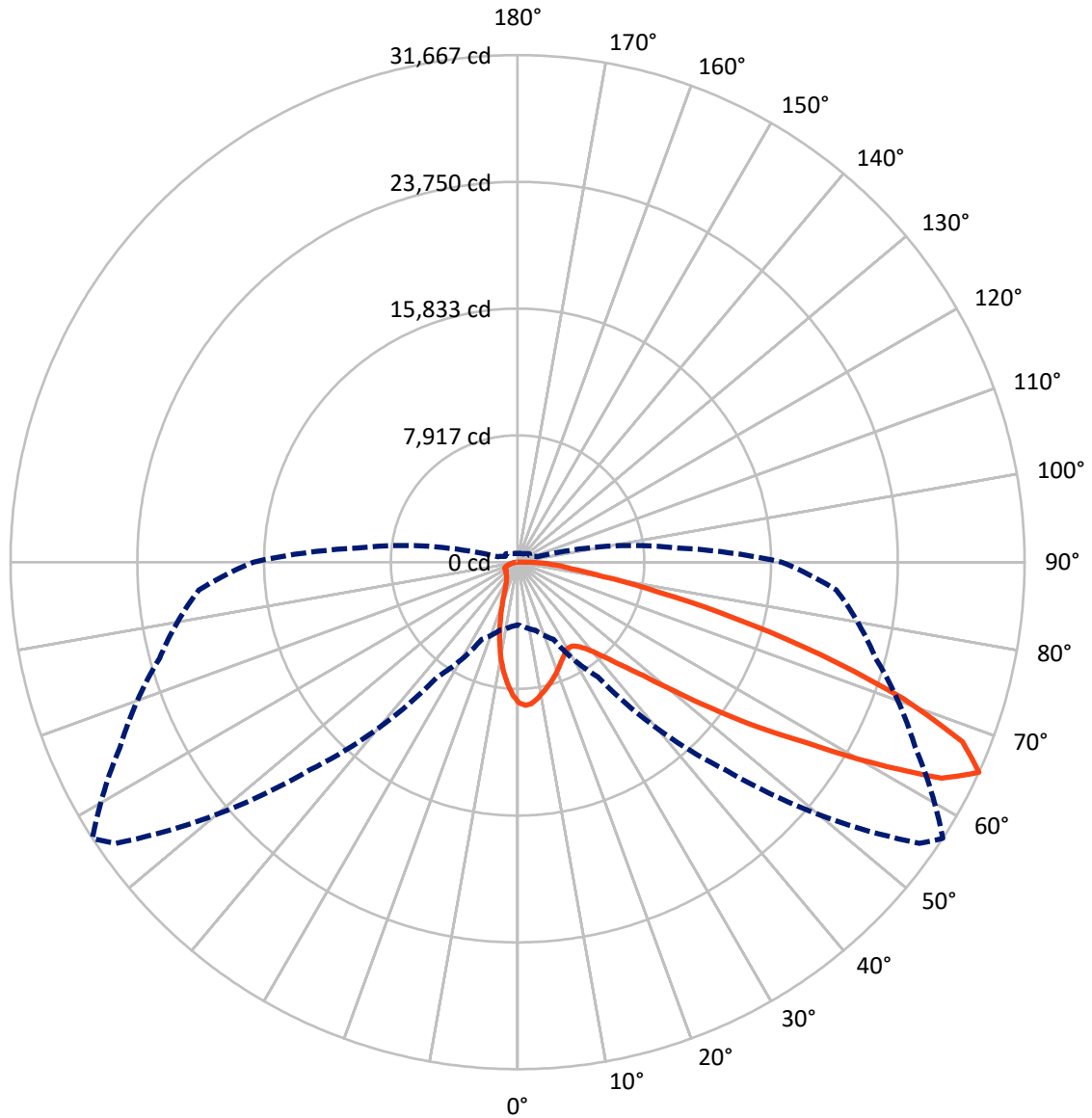
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	4893.7	0.0	4893.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	27016.2	0.0	27016.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	31909.9	0.0	31909.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.8	2.3
10°-20°	1581.5	5.0
20°-30°	2044.7	6.4
30°-40°	2751.5	8.6
40°-50°	4387.3	13.7
50°-60°	7749.1	24.3
60°-70°	8525.0	26.7
70°-80°	3566.2	11.2
80°-90°	569.9	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°	31909.9	100.0
0°-180°	31909.9	100.0

**Coefficient of Utilization**



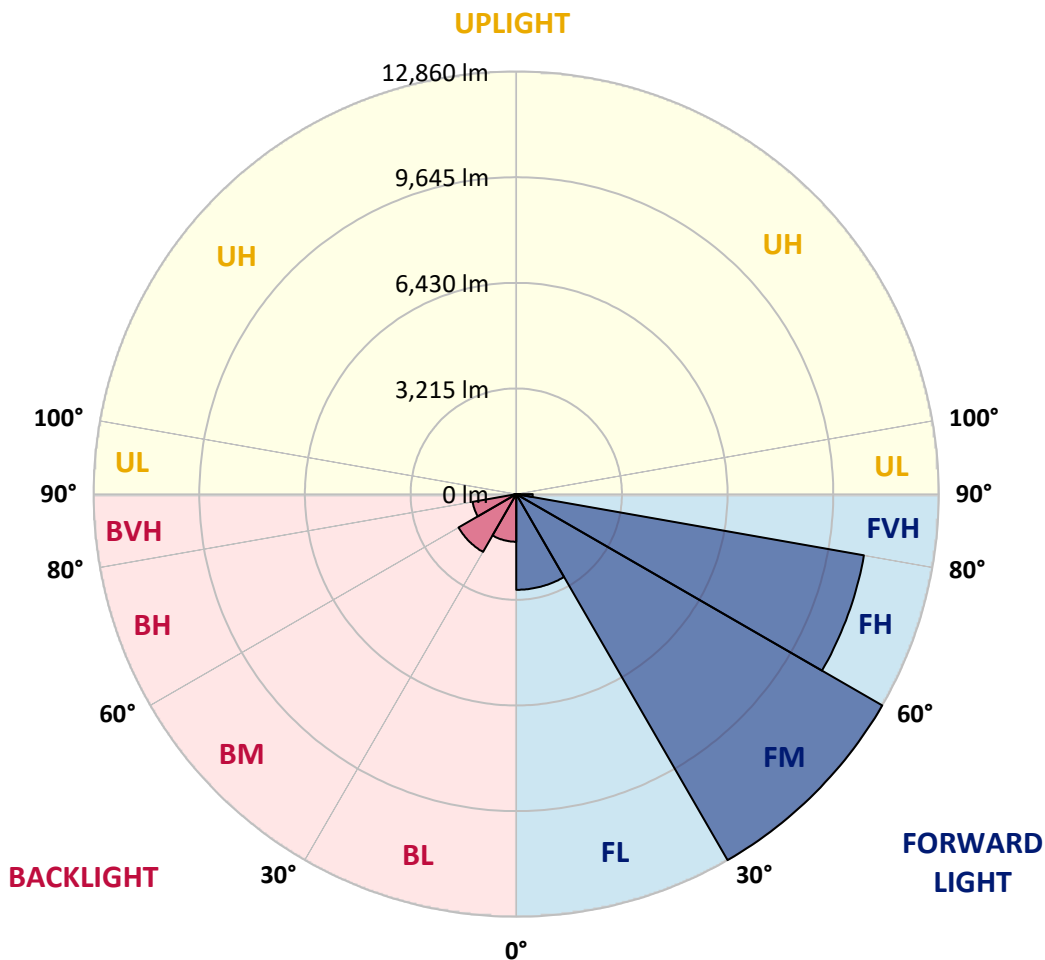
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2911.7	9.1			
FM (30°-60°)	12859.6	40.3			
FH (60°-80°)	10741.8	33.7			G4/12000
FVH (80°-90°)	503.1	1.6			G4/750
BL (0°-30°)	1449.3	4.5	B3/2500		
BM (30°-60°)	2028.2	6.4	B2/2500		
BH (60°-80°)	1349.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	66.9	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°	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8
2.5°	9011.7	9026.1	9026.1	9054.8	8957.9	9004.6	8997.4	8954.3	8968.6	8893.3	8817.9
5°	8756.8	8746.0	8803.5	8810.7	8886.1	8907.6	8925.6	8896.8	8904.0	8738.9	8667.1
7.5°	8103.4	8099.8	8196.7	8279.3	8437.3	8584.5	8681.4	8652.7	8692.2	8588.1	8419.3
10°	7327.9	7410.4	7511.0	7593.6	7884.4	8071.1	8322.4	8347.5	8498.3	8473.2	8168.0
12.5°	6746.2	6782.1	6857.5	7094.5	7360.2	7668.9	8028.0	8060.3	8207.5	8279.3	8013.6
15°	6268.7	6301.0	6398.0	6573.9	6871.9	7238.1	7694.1	7776.7	8071.1	8096.2	7812.6
17.5°	5920.5	5945.6	6010.2	6186.1	6430.3	6900.6	7331.5	7478.7	7866.4	7988.5	7604.3
20°	5784.0	5730.2	5766.1	5877.4	6121.5	6484.1	7040.6	7169.9	7665.4	7905.9	7406.9
22.5°	5723.0	5676.3	5697.9	5690.7	5884.6	6143.1	6728.3	6864.7	7475.1	7809.0	7230.9
25°	5769.7	5769.7	5748.1	5730.2	5751.7	5920.5	6390.8	6602.6	7220.2	7726.4	7051.4
27.5°	6021.0	5924.0	5934.8	5859.4	5837.9	5837.9	6240.0	6365.7	7137.6	7679.7	6904.2
30°	6182.6	6229.2	6232.8	6121.5	6010.2	5809.2	6100.0	6222.0	7069.4	7737.2	6818.0
32.5°	6595.4	6573.9	6512.9	6491.3	6326.2	6100.0	6168.2	6250.8	7029.9	7866.4	6843.2
35°	7008.3	6997.6	7001.1	6990.4	6818.0	6484.1	6351.3	6462.6	7101.7	8092.6	6929.3
37.5°	7435.6	7464.3	7586.4	7586.4	7403.3	7040.6	6864.7	6832.4	7363.8	8462.4	7134.0
40°	7862.8	7934.6	8089.0	8333.2	8074.7	7737.2	7453.5	7403.3	7679.7	8957.9	7625.9
42.5°	8272.1	8390.6	8695.8	9058.4	8972.2	8634.7	8257.8	8200.3	8329.6	9693.9	8311.6
45°	8796.3	8896.8	9377.9	9934.4	10052.9	9754.9	9313.3	9266.6	9259.5	10771.0	9255.9
47.5°	9593.4	9701.1	10182.2	10742.3	11108.5	11155.2	10659.7	10609.4	10437.1	12225.1	10638.2
50°	10591.5	10767.4	11173.1	11826.6	12357.9	12857.0	12717.0	12569.8	12232.3	13916.1	12390.2
52.5°	11320.3	11535.7	12085.1	12921.6	13858.7	14652.1	15154.8	15154.8	14379.3	15772.3	14497.8
55°	11514.2	11643.4	12336.4	13546.3	15151.2	17158.2	18210.2	18131.2	16935.6	17725.5	16950.0
57.5°	10742.3	10911.0	11751.2	13018.5	15829.8	19502.7	21244.0	21261.9	19728.9	19994.6	19369.8
60°	8616.8	8670.7	9661.6	11356.2	15176.3	21391.2	25387.2	25455.5	22906.3	22015.9	20601.3
62.5°	5956.4	6128.7	6875.5	8361.9	12573.3	21179.4	29383.3	29720.8	25451.9	23082.2	20795.2
65°	3920.6	4024.8	4423.3	5328.1	8753.2	18357.4	30625.5	31666.7	27397.8	23143.3	19983.8
67.5°	2843.5	2861.5	2980.0	3446.7	5259.8	13201.6	28503.6	29972.1	28126.7	22633.4	18080.9
70°	2297.8	2312.2	2355.3	2653.3	3396.5	8261.4	23247.4	25548.8	25940.1	20217.2	14562.4
72.5°	1867.0	1884.9	1938.8	2218.8	2800.5	4595.6	17000.2	19804.3	21100.4	14957.3	9679.5
75°	1468.4	1482.8	1612.1	1888.5	2631.7	3155.9	11277.2	14023.8	14199.8	8742.5	4531.0
77.5°	1005.3	1030.4	1188.4	1601.3	2477.3	2761.0	7029.9	8983.0	8060.3	3421.6	1558.2
80°	639.1	675.0	768.3	1213.5	2190.1	2635.3	4373.0	5364.0	3529.3	1170.4	750.4
82.5°	377.0	412.9	506.2	786.3	1719.8	2445.0	3080.5	3357.0	1655.1	599.6	452.4
85°	208.2	233.4	305.2	473.9	1008.9	2172.2	2466.6	2409.1	947.8	319.5	283.6
87.5°	68.2	79.0	111.3	190.3	416.5	1023.2	1479.2	1389.5	491.9	147.2	111.3
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°	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8	8774.8
2.5°	8767.6	8756.8	8595.3	8473.2	8264.9	8092.6	8024.4	7931.0	7927.5	7859.2	7841.3
5°	8555.8	8444.5	8196.7	7959.8	7590.0	7342.2	7116.0	6958.1	6893.4	6753.4	6721.1
7.5°	8282.9	8135.7	7755.1	7309.9	6875.5	6487.7	6135.9	5784.0	5586.6	5518.3	5442.9
10°	7999.3	7740.8	7177.1	6678.0	6071.3	5475.3	4922.3	4426.9	4157.6	3967.3	3884.7
12.5°	7773.1	7428.4	6710.3	5963.5	5162.9	4365.8	3723.2	3202.6	2897.4	2753.8	2689.2
15°	7518.2	7062.2	6200.5	5256.2	4258.1	3353.4	2725.1	2315.8	2193.7	2125.5	2114.7
17.5°	7248.9	6721.1	5647.6	4559.7	3374.9	2524.0	2118.3	1953.1	1899.3	1870.6	1856.2
20°	6997.6	6415.9	5080.3	3784.2	2642.5	2024.9	1834.7	1748.5	1744.9	1759.3	1755.7
22.5°	6642.1	6017.4	4520.2	3066.1	2111.1	1762.9	1640.8	1619.2	1640.8	1658.7	1665.9
25°	6441.1	5690.7	3895.5	2434.2	1744.9	1565.4	1525.9	1518.7	1551.0	1572.6	1569.0
27.5°	6232.8	5353.2	3313.9	1949.6	1529.5	1425.4	1418.2	1425.4	1457.7	1490.0	1486.4
30°	6071.3	5083.9	2768.1	1630.0	1364.3	1324.8	1317.7	1324.8	1342.8	1346.4	1346.4
32.5°	5938.4	4764.4	2305.0	1414.6	1263.8	1231.5	1238.7	1235.1	1238.7	1242.3	1245.8
35°	5859.4	4574.1	1924.4	1281.7	1181.2	1156.1	1152.5	1141.7	1145.3	1148.9	1145.3
37.5°	6028.2	4480.7	1622.8	1188.4	1123.8	1102.2	1095.1	1087.9	1077.1	1077.1	1077.1
40°	6283.1	4430.5	1439.7	1127.4	1080.7	1055.6	1034.0	1026.8	1026.8	1030.4	1034.0
42.5°	6789.3	4513.0	1314.1	1080.7	1026.8	998.1	976.6	980.2	990.9	1001.7	994.5
45°	7521.7	4764.4	1256.6	1044.8	994.5	955.0	940.7	937.1	947.8	965.8	980.2
47.5°	8480.4	5155.7	1235.1	1012.5	973.0	919.1	901.2	911.9	926.3	951.4	940.7
50°	10049.3	6035.3	1253.0	983.8	940.7	901.2	879.6	868.9	879.6	897.6	904.8
52.5°	12099.4	7633.0	1321.2	969.4	919.1	886.8	850.9	833.0	843.7	858.1	858.1
55°	14551.6	9816.0	1511.5	951.4	883.2	865.3	825.8	789.9	797.1	797.1	793.5
57.5°	16713.0	11463.9	1737.7	926.3	861.7	836.5	786.3	743.2	736.0	739.6	743.2
60°	17682.4	11901.9	1845.4	919.1	861.7	800.6	732.4	689.3	678.6	671.4	671.4
62.5°	17513.6	11144.4	1626.4	886.8	883.2	771.9	682.2	635.5	621.1	606.8	610.4
65°	16494.0	10063.7	1281.7	843.7	886.8	754.0	631.9	585.2	560.1	542.1	538.5
67.5°	14630.6	8591.7	1016.1	811.4	850.9	721.7	588.8	535.0	513.4	495.5	488.3
70°	11446.0	6735.5	883.2	768.3	764.7	642.7	538.5	491.9	459.6	438.0	438.0
72.5°	7421.2	4258.1	757.6	682.2	660.6	538.5	466.7	438.0	412.9	394.9	394.9
75°	3360.6	1978.3	610.4	570.9	538.5	430.8	394.9	380.6	359.0	341.1	341.1
77.5°	1206.4	843.7	456.0	448.8	402.1	333.9	319.5	308.8	294.4	276.5	276.5
80°	675.0	535.0	341.1	326.7	280.0	247.7	229.8	229.8	222.6	211.8	208.2
82.5°	427.2	348.3	251.3	219.0	183.1	165.2	158.0	154.4	150.8	136.4	132.8
85°	269.3	237.0	165.2	129.3	107.7	82.6	79.0	75.4	68.2	61.0	61.0
87.5°	122.1	136.4	64.6	39.5	28.7	18.0	10.8	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)