

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: P480485

Luminaire Tested: **IFLD-L-SA7D-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

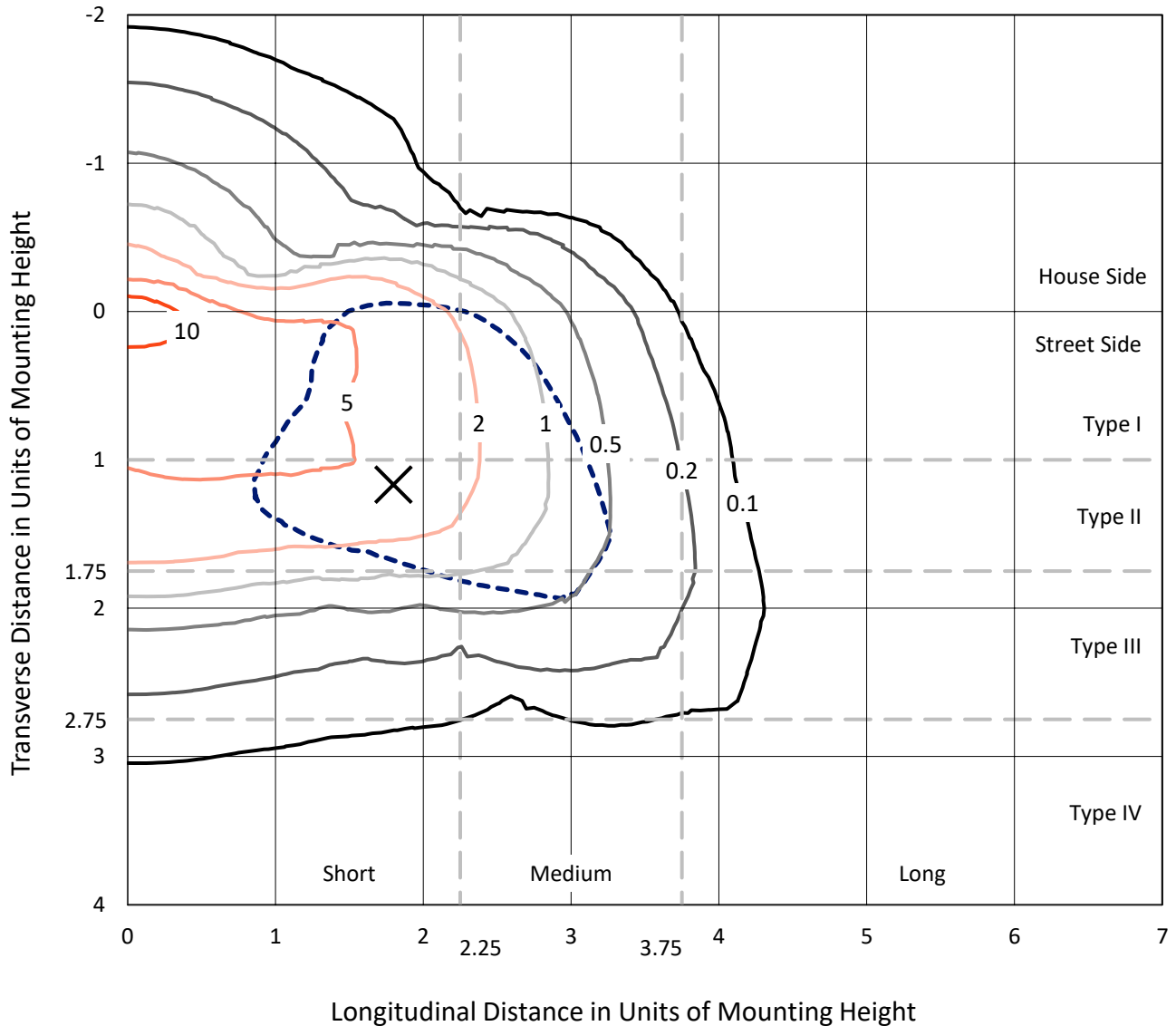
Lumens per Lamp: N/A
Luminaire Lumens: 47472.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

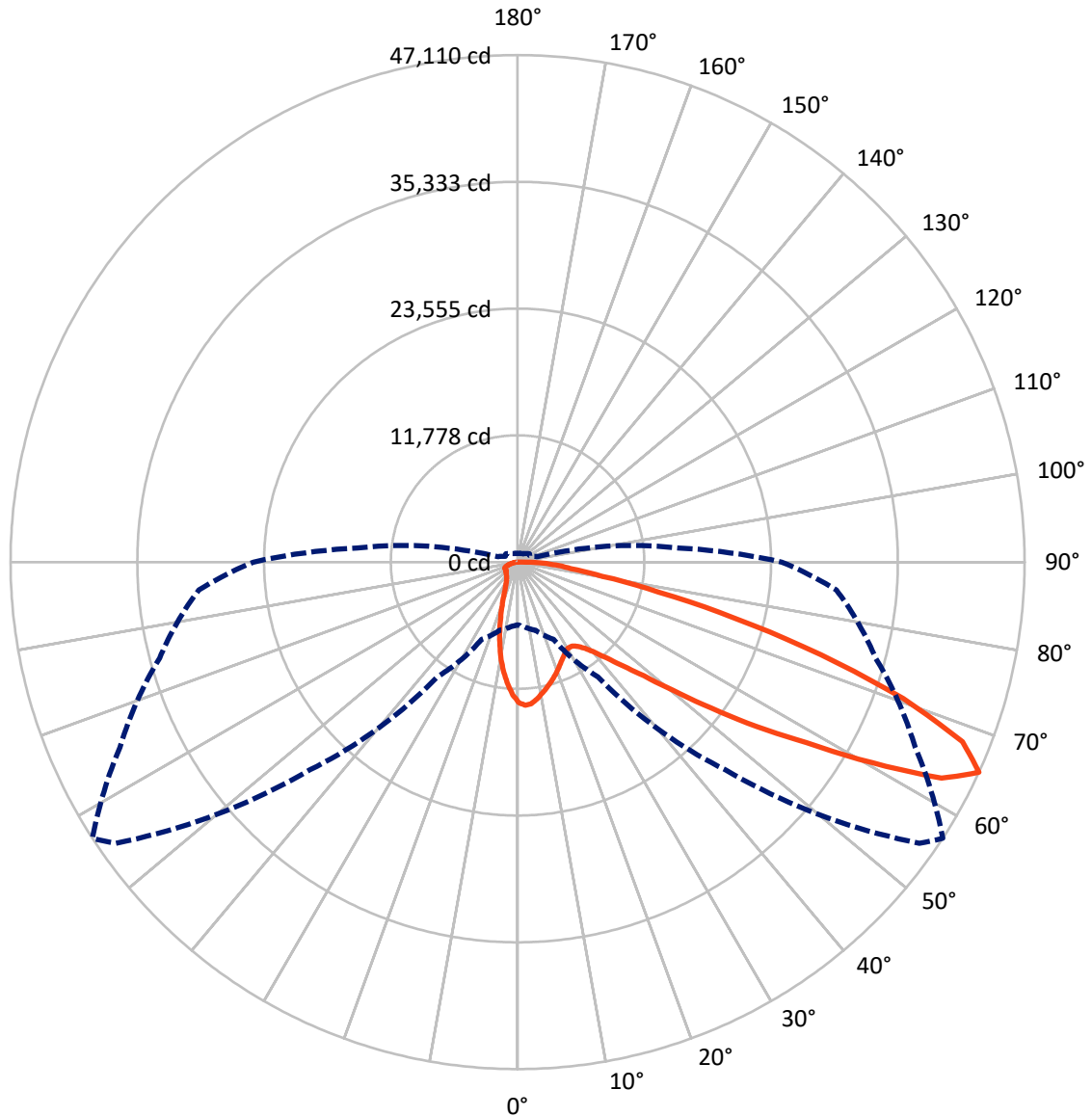
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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
House Side	Lumens	7280.3	0.0	7280.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	40191.9	0.0	40191.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	47472.2	0.0	47472.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1093.2	2.3
10°-20°	2352.7	5.0
20°-30°	3041.8	6.4
30°-40°	4093.3	8.6
40°-50°	6527.0	13.7
50°-60°	11528.3	24.3
60°-70°	12682.6	26.7
70°-80°	5305.3	11.2
80°-90°	847.9	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°	47472.2	100.0
0°-180°	47472.2	100.0

Coefficient of Utilization

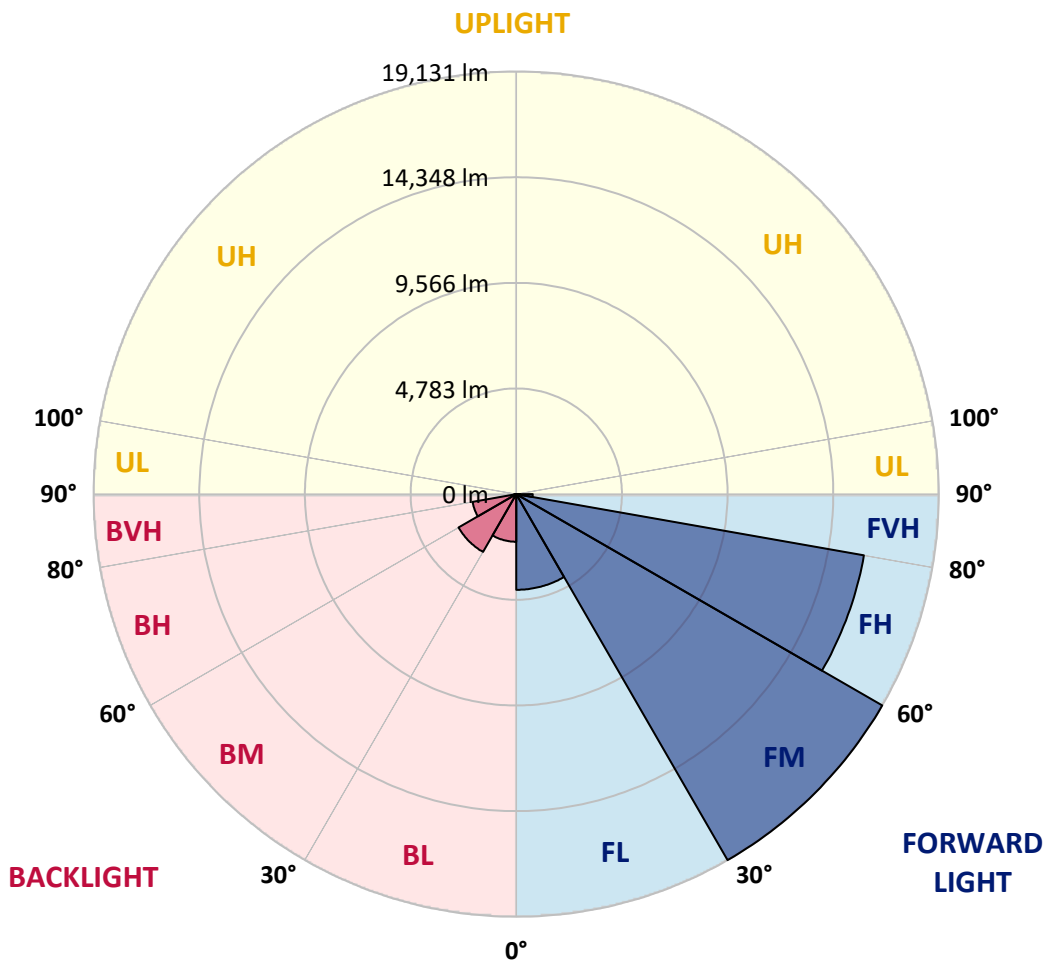


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4331.7	9.1			
FM (30°-60°)	19131.2	40.3			
FH (60°-80°)	15980.5	33.7			G5
FVH (80°-90°)	748.4	1.6			G4/750
BL (0°-30°)	2156.1	4.5	B3/2500		
BM (30°-60°)	3017.3	6.4	B3/5000		
BH (60°-80°)	2007.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	99.5	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°	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2
2.5°	13406.7	13428.1	13428.1	13470.8	13326.6	13396.0	13385.3	13321.2	13342.6	13230.4	13118.3
5°	13027.5	13011.4	13096.9	13107.6	13219.8	13251.8	13278.5	13235.8	13246.5	13000.8	12893.9
7.5°	12055.3	12050.0	12194.2	12317.1	12552.1	12771.1	12915.3	12872.6	12931.3	12776.4	12525.4
10°	10901.6	11024.5	11174.0	11296.9	11729.5	12007.3	12381.2	12418.6	12642.9	12605.5	12151.5
12.5°	10036.3	10089.7	10201.9	10554.4	10949.7	11409.0	11943.2	11991.3	12210.2	12317.1	11921.8
15°	9325.9	9374.0	9518.2	9779.9	10223.3	10768.1	11446.4	11569.3	12007.3	12044.7	11622.7
17.5°	8807.8	8845.2	8941.4	9203.1	9566.3	10266.0	10907.0	11126.0	11702.8	11884.4	11312.9
20°	8604.9	8524.7	8578.2	8743.7	9106.9	9646.4	10474.3	10666.6	11403.7	11761.6	11019.1
22.5°	8514.1	8444.6	8476.7	8466.0	8754.4	9139.0	10009.6	10212.6	11120.6	11617.4	10757.4
25°	8583.5	8583.5	8551.4	8524.7	8556.8	8807.8	9507.5	9822.7	10741.4	11494.5	10490.3
27.5°	8957.4	8813.2	8829.2	8717.0	8685.0	8685.0	9283.2	9470.2	10618.5	11425.1	10271.3
30°	9197.7	9267.2	9272.5	9106.9	8941.4	8642.2	9074.9	9256.5	10517.0	11510.5	10143.2
32.5°	9812.0	9779.9	9689.1	9657.1	9411.4	9074.9	9176.4	9299.2	10458.3	11702.8	10180.5
35°	10426.2	10410.2	10415.6	10399.5	10143.2	9646.4	9448.8	9614.4	10565.1	12039.3	10308.7
37.5°	11061.9	11104.6	11286.2	11286.2	11013.8	10474.3	10212.6	10164.5	10955.0	12589.5	10613.2
40°	11697.5	11804.3	12034.0	12397.2	12012.6	11510.5	11088.6	11013.8	11425.1	13326.6	11345.0
42.5°	12306.4	12482.7	12936.7	13476.1	13347.9	12845.9	12285.0	12199.6	12391.9	14421.6	12365.1
45°	13086.2	13235.8	13951.5	14779.4	14955.7	14512.4	13855.4	13785.9	13775.3	16023.9	13769.9
47.5°	14272.0	14432.2	15148.0	15981.2	16526.0	16595.5	15858.4	15783.6	15527.2	18187.2	15826.3
50°	15756.9	16018.6	16622.2	17594.3	18384.8	19127.2	18918.9	18699.9	18197.9	20702.9	18432.9
52.5°	16841.2	17161.6	17978.9	19223.4	20617.5	21797.9	22545.7	22545.7	21392.0	23464.4	21568.2
55°	17129.6	17321.9	18352.8	20152.8	22540.3	25526.1	27091.1	26973.6	25195.0	26370.1	25216.3
57.5°	15981.2	16232.3	17482.1	19367.6	23549.9	29014.0	31604.6	31631.3	29350.5	29745.8	28816.4
60°	12819.2	12899.3	14373.5	16894.6	22577.7	31823.6	37768.4	37869.9	34077.6	32752.9	30648.5
62.5°	8861.2	9117.6	10228.6	12439.9	18705.3	31508.4	43713.3	44215.4	37864.6	34339.3	30936.9
65°	5832.7	5987.6	6580.5	7926.5	13022.1	27310.1	45561.4	47110.4	40759.6	34430.1	29729.8
67.5°	4230.3	4257.0	4433.3	5127.7	7825.0	19640.0	42404.7	44589.3	41843.9	33671.6	26898.9
70°	3418.4	3439.8	3503.9	3947.2	5052.9	12290.4	34585.0	38008.8	38591.0	30076.9	21664.4
72.5°	2777.5	2804.2	2884.3	3300.9	4166.2	6836.9	25291.1	29462.7	31390.9	22251.9	14400.2
75°	2184.6	2206.0	2398.3	2809.5	3915.2	4695.0	16777.1	20863.2	21124.9	13006.1	6740.7
77.5°	1495.6	1533.0	1768.0	2382.2	3685.5	4107.5	10458.3	13364.0	11991.3	5090.3	2318.1
80°	950.8	1004.2	1143.0	1805.4	3258.2	3920.5	6505.7	7979.9	5250.5	1741.3	1116.3
82.5°	560.8	614.3	753.1	1169.7	2558.5	3637.4	4582.8	4994.1	2462.3	892.0	673.0
85°	309.8	347.2	454.0	705.1	1500.9	3231.5	3669.5	3584.0	1410.1	475.4	422.0
87.5°	101.5	117.5	165.6	283.1	619.6	1522.3	2200.6	2067.1	731.8	219.0	165.6
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°	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2	13054.2
2.5°	13043.5	13027.5	12787.1	12605.5	12295.7	12039.3	11937.8	11799.0	11793.6	11692.1	11665.4
5°	12728.4	12562.8	12194.2	11841.7	11291.5	10923.0	10586.5	10351.5	10255.3	10047.0	9998.9
7.5°	12322.4	12103.4	11537.2	10874.9	10228.6	9651.8	9128.3	8604.9	8311.1	8209.6	8097.4
10°	11900.4	11515.9	10677.3	9934.8	9032.2	8145.5	7322.9	6585.8	6185.2	5902.2	5779.3
12.5°	11563.9	11051.2	9982.9	8871.9	7680.8	6495.0	5538.9	4764.5	4310.4	4096.8	4000.6
15°	11184.7	10506.4	9224.5	7819.7	6334.8	4988.8	4054.1	3445.1	3263.5	3162.1	3146.0
17.5°	10784.1	9998.9	8401.9	6783.5	5020.8	3754.9	3151.4	2905.7	2825.6	2782.8	2761.5
20°	10410.2	9544.9	7558.0	5629.7	3931.2	3012.5	2729.4	2601.2	2595.9	2617.2	2611.9
22.5°	9881.4	8952.0	6724.7	4561.5	3140.7	2622.6	2441.0	2408.9	2441.0	2467.7	2478.4
25°	9582.3	8466.0	5795.3	3621.4	2595.9	2328.8	2270.1	2259.4	2307.4	2339.5	2334.2
27.5°	9272.5	7963.9	4930.0	2900.3	2275.4	2120.5	2109.8	2120.5	2168.6	2216.6	2211.3
30°	9032.2	7563.3	4118.2	2425.0	2029.7	1970.9	1960.3	1970.9	1997.7	2003.0	2003.0
32.5°	8834.5	7087.9	3429.1	2104.5	1880.1	1832.1	1842.8	1837.4	1842.8	1848.1	1853.4
35°	8717.0	6804.8	2862.9	1906.8	1757.3	1719.9	1714.6	1698.5	1703.9	1709.2	1703.9
37.5°	8968.1	6666.0	2414.3	1768.0	1671.8	1639.8	1629.1	1618.4	1602.4	1602.4	1602.4
40°	9347.3	6591.2	2141.9	1677.2	1607.7	1570.3	1538.3	1527.6	1527.6	1533.0	1538.3
42.5°	10100.4	6714.0	1954.9	1607.7	1527.6	1484.9	1452.8	1458.2	1474.2	1490.2	1479.5
45°	11190.1	7087.9	1869.5	1554.3	1479.5	1420.8	1399.4	1394.1	1410.1	1436.8	1458.2
47.5°	12616.2	7670.1	1837.4	1506.3	1447.5	1367.4	1340.7	1356.7	1378.1	1415.4	1399.4
50°	14950.3	8978.8	1864.1	1463.5	1399.4	1340.7	1308.6	1292.6	1308.6	1335.3	1346.0
52.5°	18000.2	11355.6	1965.6	1442.2	1367.4	1319.3	1265.9	1239.2	1255.2	1276.6	1276.6
55°	21648.3	14603.2	2248.7	1415.4	1314.0	1287.3	1228.5	1175.1	1185.8	1185.8	1180.4
57.5°	24863.8	17054.8	2585.2	1378.1	1281.9	1244.5	1169.7	1105.7	1095.0	1100.3	1105.7
60°	26306.0	17706.5	2745.4	1367.4	1281.9	1191.1	1089.6	1025.5	1009.5	998.8	998.8
62.5°	26054.9	16579.4	2419.6	1319.3	1314.0	1148.4	1014.8	945.4	924.0	902.7	908.0
65°	24538.0	14971.7	1906.8	1255.2	1319.3	1121.7	940.1	870.6	833.2	806.5	801.2
67.5°	21765.9	12781.8	1511.6	1207.1	1265.9	1073.6	876.0	795.9	763.8	737.1	726.4
70°	17028.1	10020.3	1314.0	1143.0	1137.7	956.1	801.2	731.8	683.7	651.6	651.6
72.5°	11040.5	6334.8	1127.0	1014.8	982.8	801.2	694.4	651.6	614.3	587.5	587.5
75°	4999.5	2943.1	908.0	849.3	801.2	641.0	587.5	566.2	534.1	507.4	507.4
77.5°	1794.7	1255.2	678.3	667.7	598.2	496.7	475.4	459.4	438.0	411.3	411.3
80°	1004.2	795.9	507.4	486.1	416.6	368.6	341.8	341.8	331.2	315.1	309.8
82.5°	635.6	518.1	373.9	325.8	272.4	245.7	235.0	229.7	224.3	203.0	197.6
85°	400.6	352.5	245.7	192.3	160.2	122.9	117.5	112.2	101.5	90.8	90.8
87.5°	181.6	203.0	96.1	58.8	42.7	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)