

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: P480085

Luminaire Tested: **IFLD-S-SA6D-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480085
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

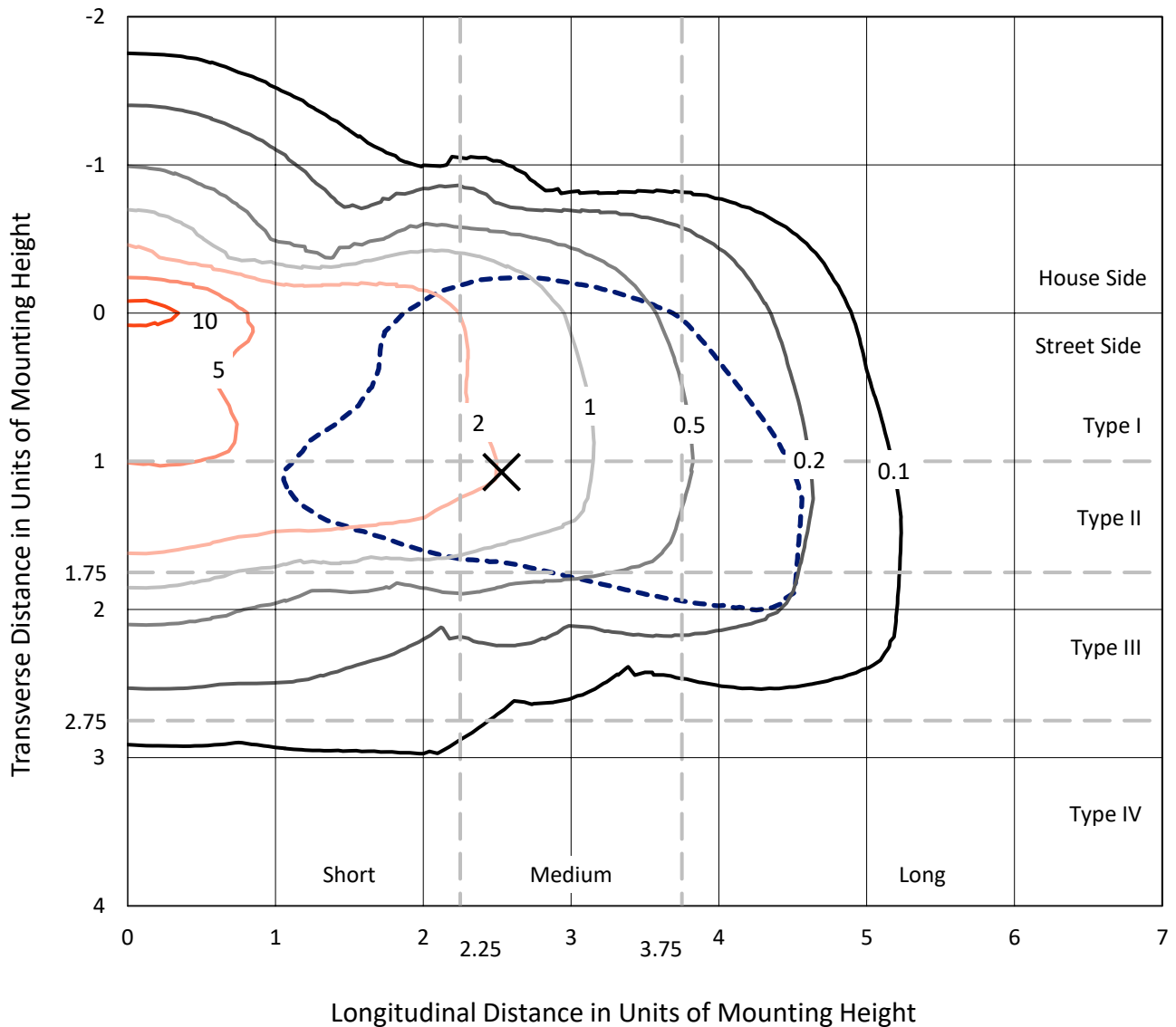
Lumens per Lamp: N/A
Luminaire Lumens: 44962.8 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

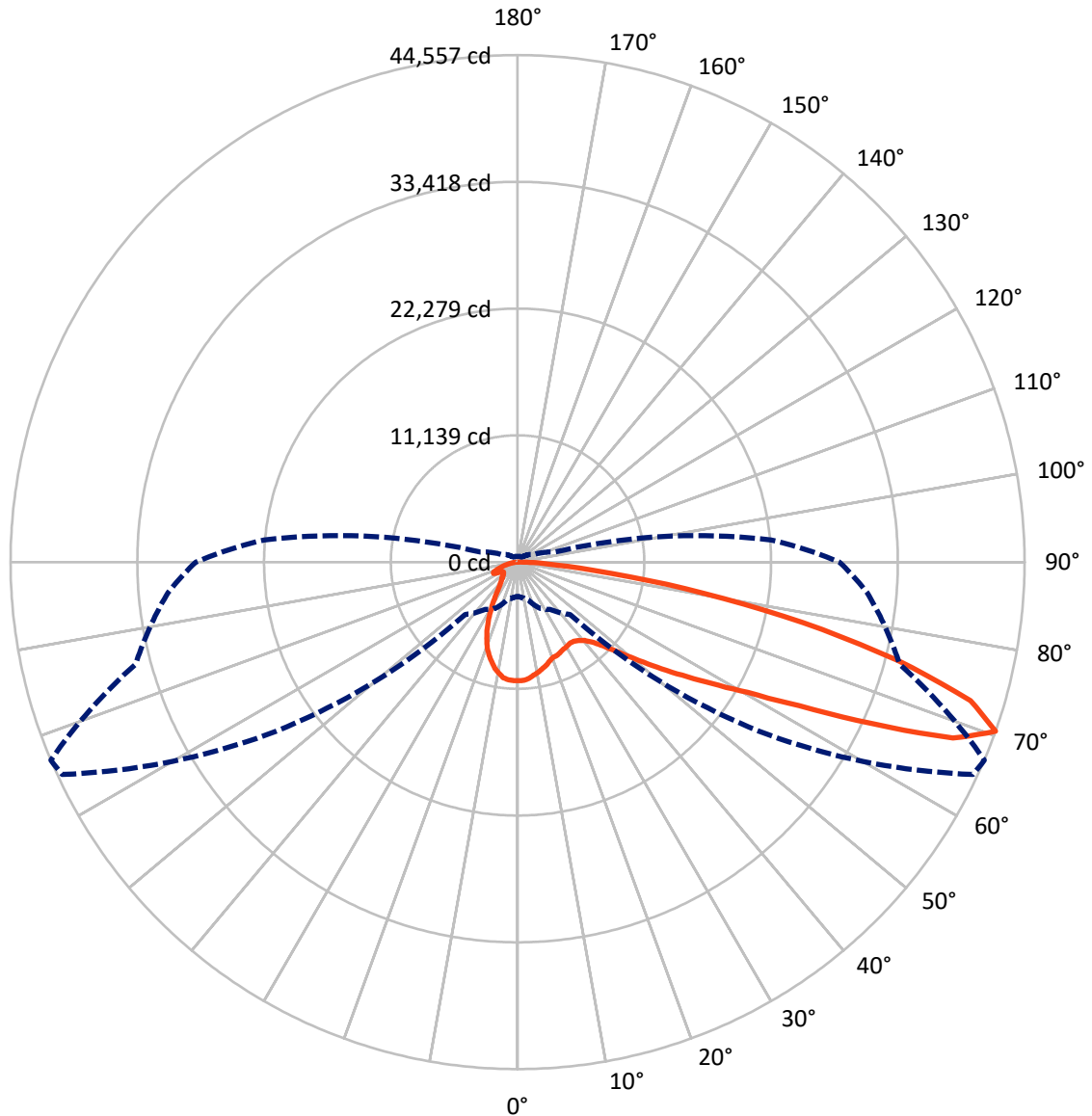
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8756.9	0.0	8756.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	36205.8	0.0	36205.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	44962.8	0.0	44962.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.2	2.0
10°-20°	2175.1	4.8
20°-30°	2937.3	6.5
30°-40°	3930.3	8.7
40°-50°	5779.5	12.9
50°-60°	9008.7	20.0
60°-70°	11097.3	24.7
70°-80°	7841.2	17.4
80°-90°	1285.2	2.9
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°	44962.8	100.0
0°-180°	44962.8	100.0

Coefficient of Utilization

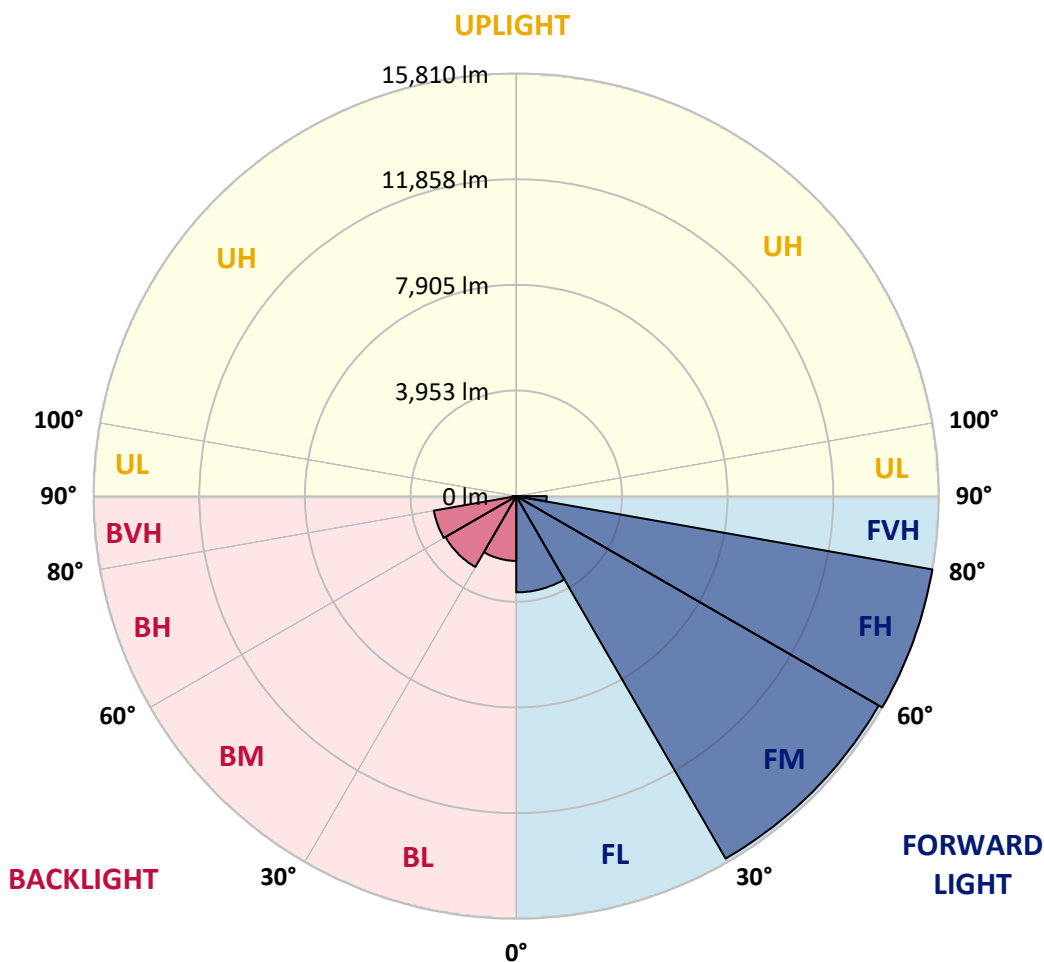


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.9	8.0			
FM (30°-60°)	15659.6	34.8			
FH (60°-80°)	15810.4	35.2			G5
FVH (80°-90°)	1137.0	2.5			G5
BL (0°-30°)	2421.6	5.4	B3/2500		
BM (30°-60°)	3059.0	6.8	B3/5000		
BH (60°-80°)	3128.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	148.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7
2.5°	9691.9	9801.4	9841.3	9901.0	10055.3	10169.8	10239.5	10319.1	10413.7	10493.4	10543.1
5°	9014.9	9074.7	9169.2	9234.0	9428.1	9736.7	9945.8	10284.3	10274.3	10398.8	10587.9
7.5°	8357.9	8417.6	8462.4	8591.8	8870.6	9149.3	9532.6	10080.2	10040.4	10329.1	10622.8
10°	7949.7	7904.9	7919.8	8138.8	8357.9	8671.5	9154.3	9711.8	9856.2	10304.2	10722.3
12.5°	7566.4	7516.6	7636.1	7775.4	8044.2	8328.0	8905.4	9408.2	9627.2	10214.6	10767.1
15°	7327.4	7292.6	7441.9	7501.7	7820.2	8158.7	8566.9	9179.2	9418.1	10105.1	10697.5
17.5°	7193.0	7222.9	7277.7	7407.1	7611.2	7899.9	8347.9	9024.9	9129.4	9970.7	10682.5
20°	7217.9	7252.8	7257.7	7312.5	7451.9	7675.9	8133.8	8860.6	8930.3	9945.8	10722.3
22.5°	7417.0	7367.3	7387.2	7352.3	7392.1	7566.4	7969.6	8641.6	8910.4	9736.7	10637.7
25°	7715.7	7646.0	7636.1	7516.6	7441.9	7491.7	7939.7	8586.8	8761.1	9672.0	10632.7
27.5°	8243.4	8138.8	8138.8	7959.6	7656.0	7576.3	7855.1	8497.2	8651.5	9612.3	10518.3
30°	8751.1	8751.1	8756.1	8502.2	8163.7	7770.5	7889.9	8462.4	8561.9	9433.1	10363.9
32.5°	9368.4	9353.4	9328.5	9204.1	8681.4	8094.0	8059.2	8417.6	8467.4	9373.3	10319.1
35°	9970.7	9930.9	10125.0	10015.5	9482.9	8726.2	8233.4	8437.5	8547.0	9283.7	10179.8
37.5°	10423.7	10448.6	10851.8	10921.5	10463.5	9443.0	8726.2	8636.6	8741.2	9413.2	10179.8
40°	11011.1	11110.6	11488.9	11722.9	11444.1	10388.8	9507.7	8970.1	9044.8	9701.9	10398.8
42.5°	11782.6	11867.3	12350.1	12653.8	12574.1	11593.5	10279.3	9667.0	9607.3	10184.7	10727.3
45°	12803.1	12818.0	13305.9	13724.0	13888.3	12852.9	11503.9	10548.1	10498.3	11016.0	11329.6
47.5°	14017.7	14002.8	14306.4	14754.4	15197.5	14356.2	12912.6	11887.2	11708.0	12205.8	12330.2
50°	15192.5	15127.8	15197.5	15769.9	16621.1	16237.8	14625.0	13524.9	13345.7	13619.5	13833.5
52.5°	15839.6	15919.2	15730.1	16486.7	18134.4	18462.9	16894.9	15481.2	15326.9	15461.3	15834.6
55°	15386.6	15550.9	15426.4	16143.3	18796.5	21175.9	19831.9	17746.1	17547.0	17497.2	18109.5
57.5°	13460.2	13758.8	13783.7	14918.7	18567.5	23276.5	23963.5	20419.2	20120.6	19612.8	20245.0
60°	10334.1	10632.7	10861.7	12205.8	16606.2	24531.0	28752.2	24222.3	23236.7	21922.6	22300.9
62.5°	7242.8	7446.9	7675.9	8502.2	12803.1	23794.2	32893.8	29578.5	27761.6	24356.7	24829.6
65°	5276.5	5435.8	5669.8	6157.6	7865.0	19687.5	34815.3	35940.3	34217.9	27453.0	27393.3
67.5°	3972.3	4071.9	4380.5	5162.1	5450.8	12161.0	32824.1	42660.4	41266.6	30892.7	29454.1
70°	3006.6	3091.3	3380.0	4450.2	5092.4	6521.0	25894.9	44158.7	44557.0	34750.6	30837.9
72.5°	2070.8	2165.4	2488.9	3708.5	4848.5	5172.0	16252.8	40116.7	41625.0	36338.5	29354.5
75°	1269.4	1334.1	1523.2	2812.5	4813.6	5057.5	8945.2	32873.9	34471.8	33575.8	25680.9
77.5°	896.0	891.0	925.9	1647.7	4171.5	5087.4	5515.5	24087.9	25641.0	24745.0	17427.5
80°	652.1	657.1	691.9	985.6	2832.4	5172.0	4345.7	16133.3	16596.2	12902.7	6874.4
82.5°	393.3	413.2	497.8	667.0	1702.4	4669.2	4017.1	8965.2	8387.7	4141.6	1891.6
85°	209.1	209.1	293.7	423.1	906.0	3484.5	3867.8	4266.0	3574.1	1284.3	701.9
87.5°	49.8	49.8	84.6	169.2	363.4	1667.6	2638.3	1697.5	1359.0	433.1	288.7
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°	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7	10408.7
2.5°	10523.2	10463.5	10538.2	10388.8	10269.4	10274.3	10090.2	10080.2	10055.3	9925.9	9970.7
5°	10642.7	10592.9	10508.3	10344.0	10080.2	9816.4	9657.1	9453.0	9368.4	9323.6	9343.5
7.5°	10757.2	10667.6	10423.7	10194.7	9786.5	9288.7	9000.0	8726.2	8377.8	8337.9	8268.3
10°	10787.1	10597.9	10284.3	9796.5	9253.9	8701.3	8044.2	7536.5	7267.7	7058.6	6979.0
12.5°	10742.3	10662.6	10060.3	9433.1	8611.7	7745.6	6979.0	6262.2	5764.4	5505.5	5435.8
15°	10737.3	10597.9	9811.4	8880.5	7830.2	6700.2	5610.1	4748.9	4226.2	4012.2	4012.2
17.5°	10742.3	10408.7	9517.7	8323.0	6909.3	5381.1	4181.4	3474.6	3185.8	3156.0	3180.9
20°	10642.7	10269.4	9209.1	7665.9	5754.4	4042.0	3036.5	2747.8	2747.8	2787.6	2802.5
22.5°	10553.1	10060.3	8721.2	6854.5	4579.6	2927.0	2469.0	2384.4	2479.0	2548.7	2578.5
25°	10428.7	9886.1	8223.5	6013.3	3484.5	2359.5	2145.5	2165.4	2255.0	2379.4	2369.5
27.5°	10249.4	9582.4	7631.1	5037.6	2593.5	2036.0	1981.2	1991.2	2085.7	2140.5	2130.5
30°	10045.4	9273.8	7083.5	4066.9	2055.9	1866.7	1861.7	1886.6	1901.5	1931.4	1926.4
32.5°	9786.5	8865.6	6501.1	3161.0	1851.8	1772.1	1752.2	1737.3	1752.2	1747.2	1732.3
35°	9602.3	8646.6	5908.7	2409.3	1737.3	1687.5	1672.6	1647.7	1627.8	1597.9	1592.9
37.5°	9552.5	8427.5	5286.5	1966.3	1647.7	1622.8	1573.0	1528.2	1503.3	1488.4	1478.4
40°	9522.7	8283.2	4679.2	1727.3	1573.0	1548.1	1488.4	1428.7	1403.8	1388.8	1393.8
42.5°	9627.2	8203.5	4061.9	1607.9	1508.3	1463.5	1398.8	1329.1	1324.1	1314.2	1329.1
45°	9995.6	8303.1	3489.5	1523.2	1443.6	1368.9	1284.3	1249.4	1244.5	1234.5	1244.5
47.5°	10831.9	8552.0	3001.7	1468.5	1373.9	1309.2	1219.6	1169.8	1164.8	1159.8	1159.8
50°	11986.7	9318.6	2593.5	1403.8	1329.1	1239.5	1154.9	1100.1	1090.2	1070.2	1070.2
52.5°	13798.7	10607.9	2349.6	1368.9	1249.4	1174.8	1085.2	1025.4	1000.6	980.6	980.6
55°	15839.6	12205.8	2304.8	1309.2	1164.8	1095.1	1015.5	955.8	930.9	906.0	896.0
57.5°	18164.3	14321.3	2623.3	1269.4	1105.1	1015.5	925.9	871.1	851.2	826.3	816.4
60°	20329.6	16432.0	3613.9	1209.6	1050.3	940.8	851.2	796.5	771.6	746.7	746.7
62.5°	22833.5	19045.4	5291.5	1209.6	1000.6	861.2	771.6	731.7	716.8	691.9	686.9
65°	25795.4	21748.3	6516.0	1284.3	985.6	791.5	696.9	657.1	642.1	627.2	622.2
67.5°	28050.3	23301.4	5605.1	1483.4	1050.3	731.7	622.2	597.3	587.4	572.5	562.5
70°	28289.3	22355.6	3380.0	1602.9	1115.0	672.0	557.5	532.6	532.6	517.7	507.7
72.5°	26143.8	19836.8	2274.9	1428.7	1010.5	602.3	492.8	472.9	462.9	453.0	448.0
75°	21877.8	16825.2	1797.0	1139.9	776.5	497.8	428.1	408.2	393.3	388.3	378.3
77.5°	14694.7	10936.4	1329.1	891.0	572.5	403.2	358.4	338.5	323.6	318.6	303.7
80°	5644.9	4166.5	856.2	647.1	403.2	318.6	283.7	263.8	253.9	238.9	229.0
82.5°	1662.6	1349.0	477.9	398.2	258.8	219.0	204.1	189.2	174.2	159.3	154.3
85°	686.9	617.3	293.7	209.1	159.3	129.4	119.5	104.5	89.6	79.6	69.7
87.5°	318.6	263.8	134.4	79.6	54.8	29.9	14.9	5.0	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)