

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: P480123

Luminaire Tested: **IFLD-S-SA6C-740-U-SL2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480123
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

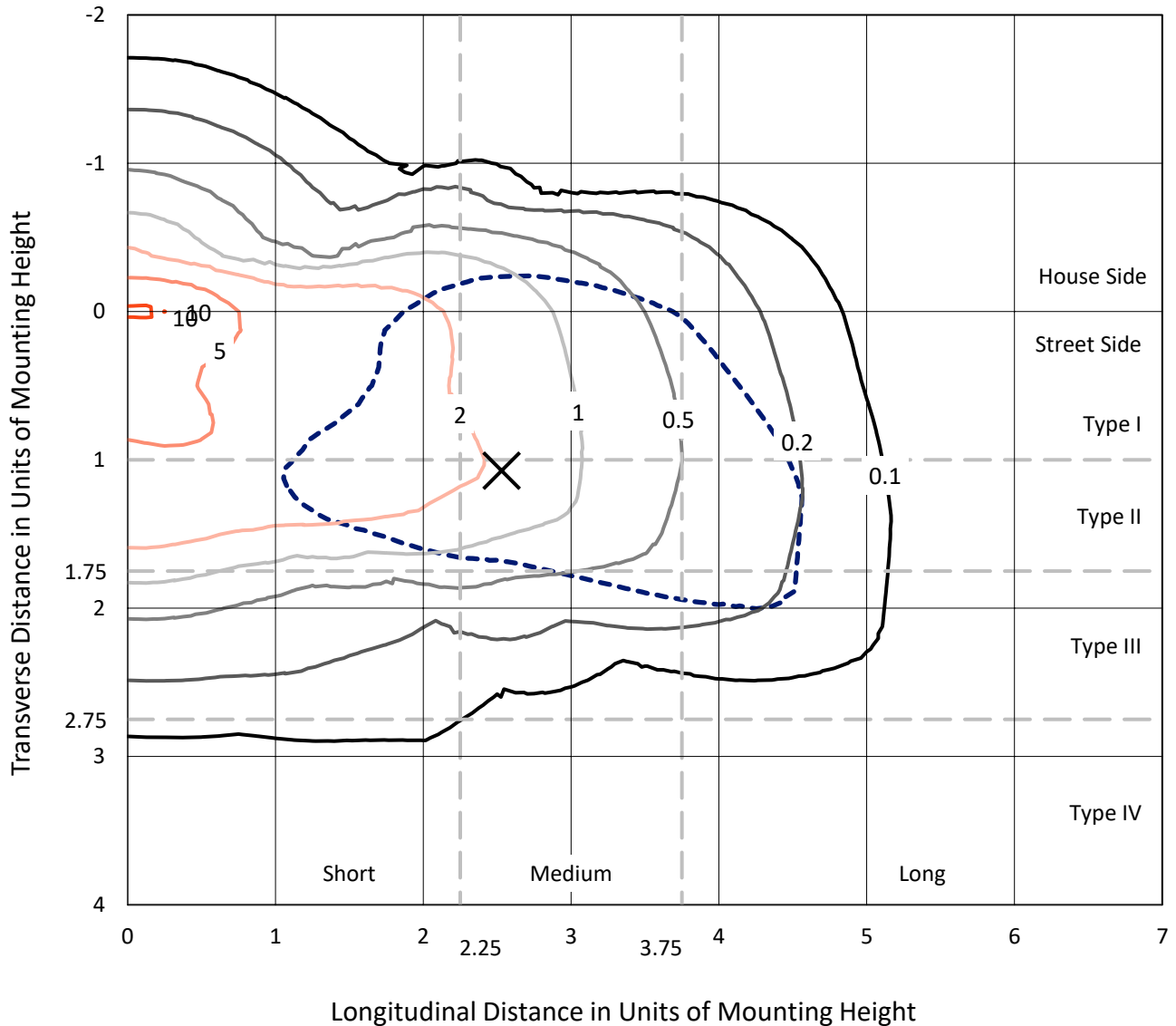
Lumens per Lamp: N/A
Luminaire Lumens: 41429.6 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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

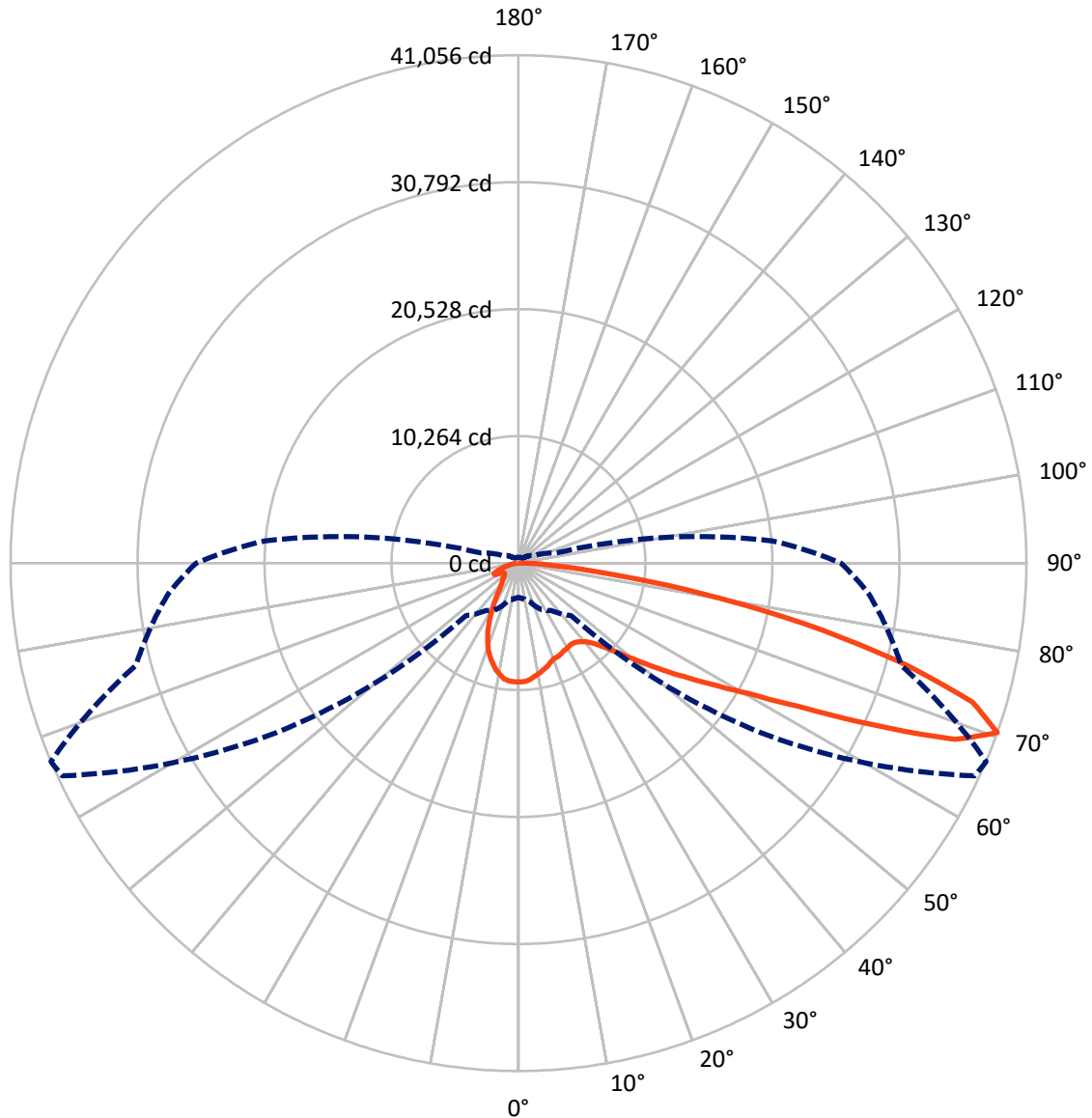
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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	8068.8	0.0	8068.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	33360.8	0.0	33360.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	41429.6	0.0	41429.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.8	2.0
10°-20°	2004.2	4.8
20°-30°	2706.5	6.5
30°-40°	3621.5	8.7
40°-50°	5325.3	12.9
50°-60°	8300.8	20.0
60°-70°	10225.2	24.7
70°-80°	7225.1	17.4
80°-90°	1184.2	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°	41429.6	100.0
0°-180°	41429.6	100.0

Coefficient of Utilization

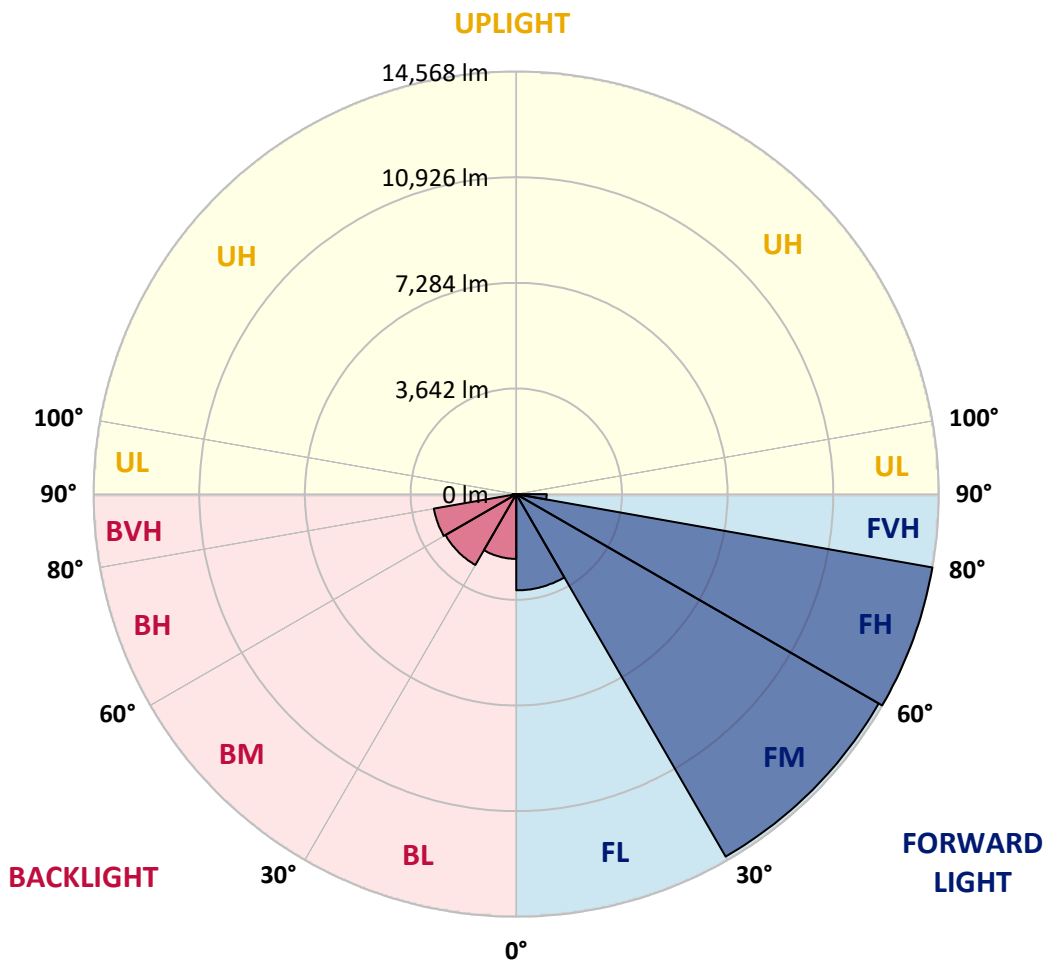


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3316.1	8.0			
FM (30°-60°)	14429.0	34.8			
FH (60°-80°)	14568.0	35.2			G5
FVH (80°-90°)	1047.6	2.5			G5
BL (0°-30°)	2231.3	5.4	B3/2500		
BM (30°-60°)	2818.6	6.8	B3/5000		
BH (60°-80°)	2882.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	136.6	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°	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8
2.5°	8930.3	9031.2	9067.9	9123.0	9265.2	9370.7	9434.9	9508.3	9595.4	9668.8	9714.7
5°	8306.5	8361.6	8448.7	8508.3	8687.2	8971.6	9164.2	9476.1	9467.0	9581.6	9755.9
7.5°	7701.1	7756.1	7797.4	7916.7	8173.5	8430.4	8783.6	9288.1	9251.4	9517.4	9788.0
10°	7325.0	7283.7	7297.5	7499.3	7701.1	7990.1	8435.0	8948.7	9081.7	9494.5	9879.8
12.5°	6971.8	6925.9	7036.0	7164.4	7412.1	7673.6	8205.6	8668.9	8870.7	9411.9	9921.1
15°	6751.6	6719.5	6857.1	6912.2	7205.7	7517.6	7893.7	8457.9	8678.1	9311.0	9856.8
17.5°	6627.8	6655.3	6705.8	6825.0	7013.1	7279.1	7691.9	8315.7	8412.0	9187.2	9843.1
20°	6650.7	6682.8	6687.4	6737.9	6866.3	7072.7	7494.7	8164.3	8228.6	9164.2	9879.8
22.5°	6834.2	6788.3	6806.7	6774.6	6811.3	6971.8	7343.3	7962.5	8210.2	8971.6	9801.8
25°	7109.4	7045.2	7036.0	6925.9	6857.1	6903.0	7315.8	7912.1	8072.6	8912.0	9797.2
27.5°	7595.6	7499.3	7499.3	7334.2	7054.4	6981.0	7237.8	7829.5	7971.7	8856.9	9691.7
30°	8063.4	8063.4	8068.0	7834.1	7522.2	7159.9	7269.9	7797.4	7889.1	8691.8	9549.5
32.5°	8632.2	8618.4	8595.5	8480.8	7999.2	7458.0	7425.9	7756.1	7802.0	8636.8	9508.3
35°	9187.2	9150.5	9329.4	9228.5	8737.7	8040.5	7586.4	7774.5	7875.4	8554.2	9379.8
37.5°	9604.6	9627.5	9999.0	10063.2	9641.3	8701.0	8040.5	7957.9	8054.3	8673.5	9379.8
40°	10145.8	10237.5	10586.1	10801.7	10544.8	9572.5	8760.6	8265.3	8334.1	8939.5	9581.6
42.5°	10856.7	10934.7	11379.6	11659.4	11586.0	10682.5	9471.6	8907.4	8852.4	9384.4	9884.4
45°	11797.0	11810.8	12260.3	12645.6	12796.9	11842.9	10599.9	9719.2	9673.4	10150.4	10439.4
47.5°	12916.2	12902.4	13182.2	13595.0	14003.2	13228.1	11897.9	10953.1	10787.9	11246.6	11361.3
50°	13998.6	13939.0	14003.2	14530.7	15315.0	14961.9	13475.8	12462.1	12297.0	12549.2	12746.5
52.5°	14594.9	14668.3	14494.0	15191.2	16709.4	17012.1	15567.3	14264.7	14122.5	14246.3	14590.3
55°	14177.5	14328.9	14214.2	14874.7	17319.4	19511.9	18273.5	16351.6	16168.2	16122.3	16686.5
57.5°	12402.5	12677.7	12700.6	13746.4	17108.4	21447.5	22080.4	18814.7	18539.5	18071.6	18654.2
60°	9522.0	9797.2	10008.2	11246.6	15301.3	22603.3	26492.8	22318.9	21410.8	20199.9	20548.5
62.5°	6673.7	6861.7	7072.7	7834.1	11797.0	21924.5	30309.0	27254.2	25580.1	22442.8	22878.5
65°	4861.9	5008.7	5224.3	5673.8	7247.0	18140.4	32079.5	33116.1	31529.1	25295.7	25240.7
67.5°	3660.2	3751.9	4036.3	4756.4	5022.4	11205.3	30244.8	39308.1	38023.8	28465.1	27139.6
70°	2770.4	2848.3	3114.4	4100.5	4692.2	6008.6	23860.1	40688.7	41055.7	32019.8	28414.7
72.5°	1908.1	1995.2	2293.4	3417.1	4467.5	4765.6	14975.6	36964.3	38354.1	33483.0	27047.8
75°	1169.6	1229.2	1403.5	2591.5	4435.3	4660.1	8242.3	30290.6	31763.0	30937.4	23662.8
77.5°	825.6	821.0	853.1	1518.2	3843.7	4687.6	5082.1	22195.1	23626.2	22800.5	16058.1
80°	600.9	605.4	637.6	908.2	2609.8	4765.6	4004.2	14865.5	15292.1	11888.8	6334.2
82.5°	362.4	380.7	458.7	614.6	1568.7	4302.3	3701.5	8260.7	7728.6	3816.1	1743.0
85°	192.6	192.6	270.6	389.9	834.8	3210.7	3563.9	3930.8	3293.3	1183.4	646.7
87.5°	45.9	45.9	78.0	155.9	334.8	1536.5	2431.0	1564.1	1252.2	399.0	266.0
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°	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8	9590.8
2.5°	9696.3	9641.3	9710.1	9572.5	9462.4	9467.0	9297.3	9288.1	9265.2	9145.9	9187.2
5°	9806.4	9760.5	9682.5	9531.2	9288.1	9045.0	8898.2	8710.2	8632.2	8590.9	8609.3
7.5°	9911.9	9829.3	9604.6	9393.6	9017.5	8558.8	8292.8	8040.5	7719.4	7682.7	7618.5
10°	9939.4	9765.1	9476.1	9026.6	8526.7	8017.6	7412.1	6944.3	6696.6	6504.0	6430.6
12.5°	9898.1	9824.7	9269.7	8691.8	7935.0	7136.9	6430.6	5770.1	5311.4	5072.9	5008.7
15°	9893.5	9765.1	9040.4	8182.7	7214.9	6173.7	5169.2	4375.7	3894.1	3696.9	3696.9
17.5°	9898.1	9590.8	8769.8	7669.0	6366.4	4958.2	3852.8	3201.5	2935.5	2908.0	2930.9
20°	9806.4	9462.4	8485.4	7063.5	5302.2	3724.4	2797.9	2531.9	2531.9	2568.6	2582.3
22.5°	9723.8	9269.7	8035.9	6315.9	4219.8	2697.0	2275.0	2197.0	2284.2	2348.4	2375.9
25°	9609.2	9109.2	7577.2	5540.7	3210.7	2174.1	1976.9	1995.2	2077.8	2192.4	2183.3
27.5°	9444.0	8829.4	7031.4	4641.8	2389.7	1876.0	1825.5	1834.7	1921.8	1972.3	1963.1
30°	9256.0	8545.0	6526.9	3747.3	1894.3	1720.0	1715.4	1738.4	1752.1	1779.6	1775.1
32.5°	9017.5	8168.9	5990.2	2912.6	1706.3	1632.9	1614.5	1600.8	1614.5	1609.9	1596.2
35°	8847.8	7967.1	5444.4	2220.0	1600.8	1554.9	1541.1	1518.2	1499.9	1472.3	1467.7
37.5°	8801.9	7765.3	4871.1	1811.8	1518.2	1495.3	1449.4	1408.1	1385.2	1371.4	1362.3
40°	8774.4	7632.3	4311.5	1591.6	1449.4	1426.5	1371.4	1316.4	1293.5	1279.7	1284.3
42.5°	8870.7	7558.9	3742.8	1481.5	1389.8	1348.5	1288.9	1224.7	1220.1	1210.9	1224.7
45°	9210.1	7650.6	3215.3	1403.5	1330.1	1261.3	1183.4	1151.3	1146.7	1137.5	1146.7
47.5°	9980.7	7880.0	2765.8	1353.1	1265.9	1206.3	1123.7	1077.9	1073.3	1068.7	1068.7
50°	11044.8	8586.3	2389.7	1293.5	1224.7	1142.1	1064.1	1013.7	1004.5	986.1	986.1
52.5°	12714.4	9774.3	2164.9	1261.3	1151.3	1082.5	999.9	944.9	921.9	903.6	903.6
55°	14594.9	11246.6	2123.6	1206.3	1073.3	1009.1	935.7	880.6	857.7	834.8	825.6
57.5°	16736.9	13196.0	2417.2	1169.6	1018.2	935.7	853.1	802.7	784.3	761.4	752.2
60°	18732.1	15140.7	3330.0	1114.6	967.8	866.9	784.3	733.9	710.9	688.0	688.0
62.5°	21039.2	17548.8	4875.7	1114.6	921.9	793.5	710.9	674.2	660.5	637.6	633.0
65°	23768.3	20039.3	6004.0	1183.4	908.2	729.3	642.1	605.4	591.7	577.9	573.3
67.5°	25846.1	21470.4	5164.6	1366.8	967.8	674.2	573.3	550.4	541.2	527.5	518.3
70°	26066.3	20598.9	3114.4	1476.9	1027.4	619.2	513.7	490.8	490.8	477.0	467.8
72.5°	24089.4	18278.0	2096.1	1316.4	931.1	555.0	454.1	435.7	426.6	417.4	412.8
75°	20158.6	15503.1	1655.8	1050.4	715.5	458.7	394.5	376.1	362.4	357.8	348.6
77.5°	13540.0	10077.0	1224.7	821.0	527.5	371.5	330.2	311.9	298.1	293.5	279.8
80°	5201.3	3839.1	788.9	596.3	371.5	293.5	261.4	243.1	233.9	220.2	211.0
82.5°	1532.0	1243.0	440.3	366.9	238.5	201.8	188.1	174.3	160.5	146.8	142.2
85°	633.0	568.8	270.6	192.6	146.8	119.3	110.1	96.3	82.6	73.4	64.2
87.5°	293.5	243.1	123.8	73.4	50.5	27.5	13.8	4.6	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)