

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: P480903

Luminaire Tested: **IFLD-S-SA6C-740-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480903  
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-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

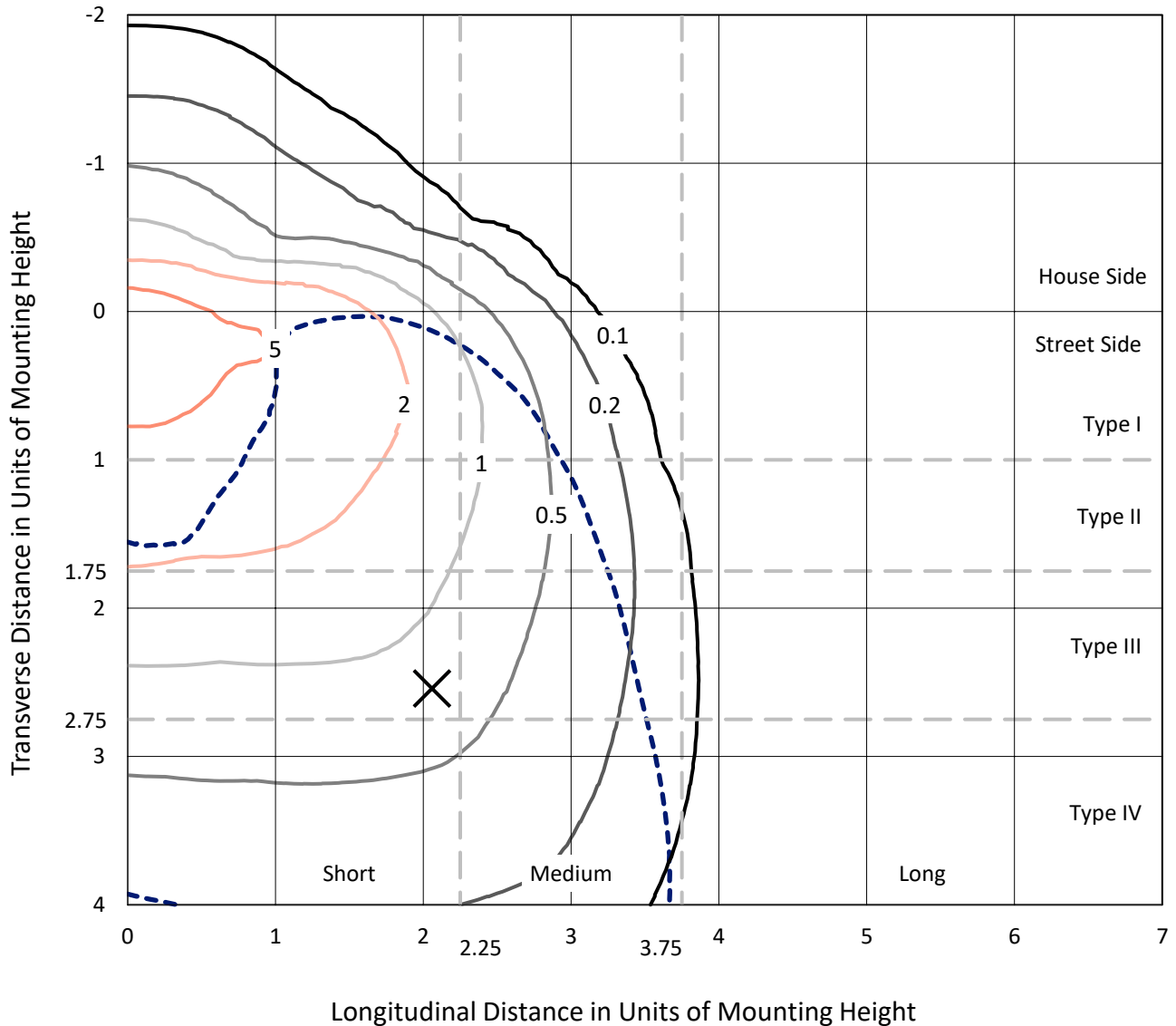
Lumens per Lamp: N/A  
Luminaire Lumens: 40192.2 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

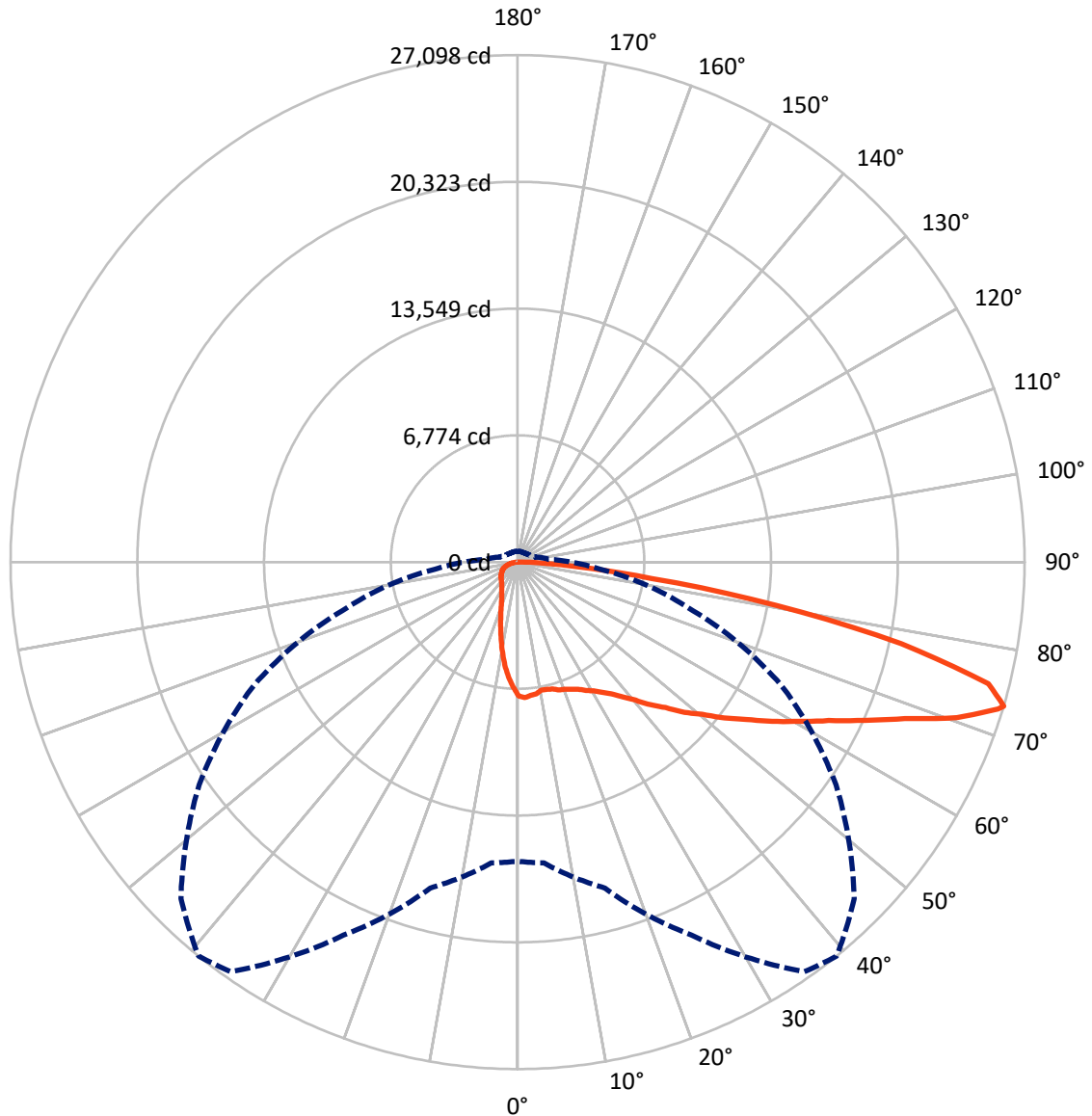
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5649.9	0.0	5649.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	34542.3	0.0	34542.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	40192.2	0.0	40192.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.1	1.5
10°-20°	1578.8	3.9
20°-30°	2412.6	6.0
30°-40°	3517.7	8.8
40°-50°	5315.6	13.2
50°-60°	7697.3	19.2
60°-70°	9779.8	24.3
70°-80°	7928.0	19.7
80°-90°	1341.4	3.3
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°	40192.2	100.0
0°-180°	40192.2	100.0

**Coefficient of Utilization**



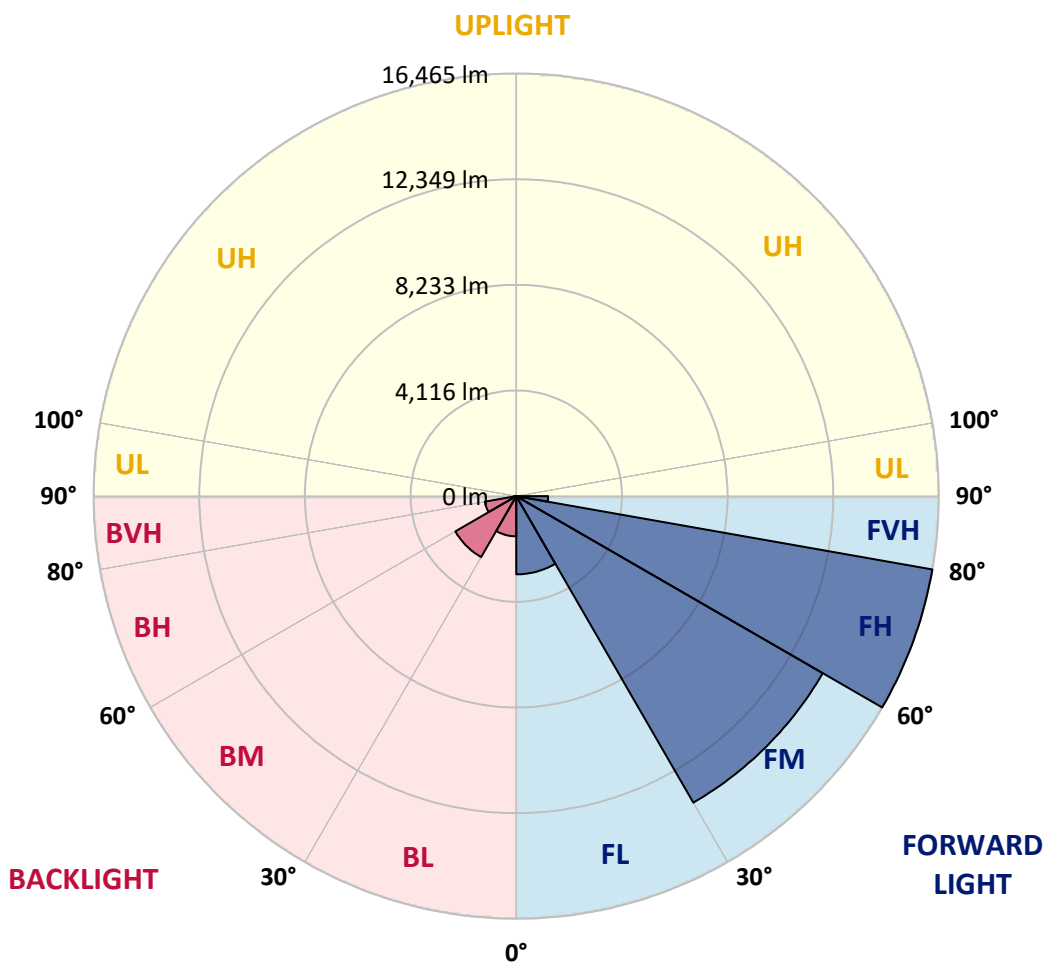
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3045.7	7.6			
FM	(30°-60°)	13788.5	34.3			
FH	(60°-80°)	16465.2	41.0			G5
FVH	(80°-90°)	1243.0	3.1			G5
BL	(0°-30°)	1566.8	3.9	B3/2500		
BM	(30°-60°)	2742.0	6.8	B3/5000		
BH	(60°-80°)	1242.6	3.1	B3/2500		G3/2500
BVH	(80°-90°)	98.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5
2.5°	7325.3	7248.9	7262.4	7235.4	7262.4	7253.4	7239.9	7172.5	7239.9	7172.5	7154.5
5°	7226.4	7226.4	7271.4	7203.9	7212.9	7168.0	7212.9	7163.5	7118.5	7006.1	6974.6
7.5°	7194.9	7190.4	7194.9	7100.5	7145.5	7118.5	7073.5	7019.6	6929.6	6857.7	6754.2
10°	6979.1	7024.1	6974.6	7001.6	7037.5	6956.6	6952.1	6938.6	6898.1	6803.7	6740.8
12.5°	6862.2	6938.6	6965.6	6943.1	6974.6	6983.6	6956.6	6938.6	6889.2	6826.2	6646.3
15°	6911.6	6821.7	6898.1	7046.5	7015.1	7037.5	7042.0	7024.1	7001.6	6884.7	6767.7
17.5°	6925.1	6871.2	7033.0	7064.5	7105.0	7185.9	7132.0	7127.5	7042.0	6961.1	6790.2
20°	6956.6	6934.1	7064.5	7230.9	7235.4	7248.9	7275.9	7208.4	7163.5	7024.1	6763.2
22.5°	7073.5	7150.0	7271.4	7343.3	7383.8	7392.8	7392.8	7257.9	7208.4	7096.0	6889.2
25°	7424.3	7343.3	7514.2	7599.7	7541.2	7527.7	7496.2	7374.8	7320.8	7221.9	6947.6
27.5°	7680.6	7676.1	7775.0	7891.9	7734.6	7766.0	7653.6	7617.6	7496.2	7442.3	7051.0
30°	8031.3	8130.3	8125.8	8161.8	7954.9	7990.9	7847.0	7779.5	7712.1	7743.5	7356.8
32.5°	8481.0	8445.1	8503.5	8476.5	8269.7	8301.2	8130.3	8026.8	8049.3	8143.8	7775.0
35°	8768.8	8732.9	8755.3	8755.3	8692.4	8656.4	8584.5	8449.6	8557.5	8732.9	8242.7
37.5°	9079.1	9124.1	9254.5	9227.5	9146.6	9146.6	9137.6	9043.1	9182.5	9614.2	8989.2
40°	9353.4	9474.8	9555.8	9609.7	9704.2	9704.2	9780.6	9726.7	9978.5	10671.0	9902.0
42.5°	9641.2	9645.7	10086.4	10126.9	10338.2	10428.2	10486.6	10531.6	11003.8	11777.2	10877.8
45°	10010.0	10032.4	10419.2	10729.4	11057.7	11089.2	11309.5	11457.9	12038.0	12986.9	11939.1
47.5°	10495.6	10468.6	10882.3	11377.0	11786.2	12002.1	12267.4	12429.3	13144.2	14299.9	13099.3
50°	11134.2	11053.2	11291.6	12069.5	12550.7	12789.0	13261.2	13531.0	14367.4	15554.6	13895.2
52.5°	11912.1	11777.2	11966.1	12816.0	13355.6	13836.8	14286.4	14587.7	15460.1	16525.9	14484.3
55°	12735.0	12456.2	12510.2	13607.4	14385.4	14839.6	15455.6	15770.4	16660.8	17398.3	15073.4
57.5°	13549.0	13373.6	13265.7	14367.4	15613.0	16049.2	16615.8	17025.0	17780.5	18171.7	15572.5
60°	14232.5	14187.5	14012.1	15545.6	16912.6	17285.8	17879.4	18131.2	18702.3	18886.7	15581.5
62.5°	14794.6	14641.7	14920.5	16494.4	18234.7	18657.4	19309.4	19331.9	19736.6	19331.9	15122.9
65°	15235.3	15244.3	15689.5	17641.1	19763.6	20388.6	20914.8	20856.3	20595.5	19066.6	14039.1
67.5°	15635.5	15806.4	16458.4	18900.2	21728.7	22317.8	22902.4	22128.9	20829.3	17825.5	11921.1
70°	15950.3	16121.2	17497.2	20433.6	24044.6	24908.0	25038.4	22632.6	19754.6	15100.4	8993.7
72.5°	15914.3	16224.6	18086.3	21656.8	26099.6	26846.1	25793.8	21216.1	16458.4	10527.1	5247.8
73°	15990.7	16143.6	18036.8	21998.5	26724.7	27097.9	25443.1	20770.9	15523.1	9443.4	4438.4
75°	14515.8	15032.9	17141.9	21440.9	26054.7	25987.2	23428.5	17308.3	11035.2	4960.0	2149.5
77.5°	10738.4	11066.7	13508.5	17632.1	21386.9	20955.2	17672.6	11062.2	5238.8	1839.2	1160.2
80°	5247.8	5504.1	7159.0	10180.8	13985.2	14021.1	10967.8	5755.9	2243.9	1038.8	791.4
82.5°	2621.7	2774.5	3440.1	4474.4	6880.2	7208.4	5562.6	3273.7	1389.5	589.1	449.7
85°	1713.3	1821.2	2118.0	2190.0	2918.4	3080.3	2590.2	2554.2	903.9	319.3	364.2
87.5°	1137.7	1155.7	1299.6	1106.2	1169.2	1124.2	1250.1	1609.9	265.3	134.9	98.9
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°	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5	7154.5
2.5°	7132.0	7069.0	7001.6	6907.1	6839.7	6736.3	6641.8	6601.4	6592.4	6596.9	6551.9
5°	6947.6	6857.7	6722.8	6529.4	6417.0	6246.1	6102.2	6025.8	5944.8	5958.3	5922.3
7.5°	6691.3	6592.4	6385.5	6160.7	5881.9	5639.0	5504.1	5315.3	5207.3	5126.4	5171.4
10°	6610.3	6439.5	6129.2	5818.9	5387.2	5067.9	4757.7	4541.8	4393.4	4249.5	4312.5
12.5°	6569.9	6399.0	5967.3	5508.6	4951.0	4465.4	4029.2	3763.9	3552.5	3426.6	3476.1
15°	6533.9	6322.5	5814.4	5166.9	4541.8	3903.3	3413.1	3062.3	2860.0	2738.6	2752.1
17.5°	6583.4	6282.1	5589.6	4834.1	4092.1	3408.6	2864.5	2500.2	2293.4	2216.9	2199.0
20°	6533.9	6237.1	5369.2	4501.3	3642.4	2936.4	2414.8	2113.5	1969.6	1906.7	1893.2
22.5°	6551.9	6129.2	5139.9	4132.6	3224.2	2540.7	2113.5	1884.2	1771.8	1740.3	1749.3
25°	6637.3	6066.2	4910.5	3727.9	2810.5	2248.4	1920.1	1744.8	1663.8	1632.4	1641.3
27.5°	6700.3	6120.2	4703.7	3345.6	2459.8	1987.6	1758.3	1641.3	1587.4	1564.9	1560.4
30°	6857.7	6151.7	4501.3	3003.9	2172.0	1816.7	1645.8	1551.4	1515.4	1501.9	1497.4
32.5°	7091.5	6210.1	4267.5	2689.1	1960.6	1654.8	1555.9	1475.0	1466.0	1452.5	1457.0
35°	7473.7	6412.5	4006.7	2419.3	1758.3	1546.9	1461.5	1407.5	1407.5	1407.5	1421.0
37.5°	8022.4	6695.8	3772.8	2163.0	1627.9	1452.5	1380.5	1362.5	1353.5	1367.0	1376.0
40°	8728.4	7037.5	3584.0	1960.6	1515.4	1389.5	1326.6	1317.6	1313.1	1308.6	1317.6
42.5°	9501.8	7473.7	3422.1	1803.2	1434.5	1322.1	1277.1	1268.1	1250.1	1259.1	1272.6
45°	10270.8	8013.4	3278.2	1677.3	1380.5	1286.1	1223.1	1218.6	1209.6	1205.2	1227.6
47.5°	11125.2	8544.0	3233.2	1600.9	1340.1	1232.1	1187.2	1182.7	1155.7	1151.2	1169.2
50°	11790.7	8935.2	3282.7	1564.9	1281.6	1191.7	1160.2	1137.7	1115.2	1092.7	1092.7
52.5°	12249.4	9205.0	3318.7	1537.9	1250.1	1137.7	1097.2	1088.2	1065.7	1043.3	1034.3
55°	12663.1	9366.9	3327.7	1542.4	1218.6	1074.7	1047.8	1043.3	1029.8	993.8	984.8
57.5°	12802.5	9299.5	3147.8	1501.9	1200.7	1034.3	998.3	1007.3	989.3	957.8	953.3
60°	12789.0	8831.8	2738.6	1448.0	1160.2	989.3	944.3	971.3	971.3	935.3	930.8
62.5°	12011.0	7752.5	2239.4	1344.6	1115.2	944.3	894.9	935.3	948.8	926.3	921.9
65°	10396.7	6313.6	1870.7	1241.1	1047.8	894.9	845.4	890.4	912.9	903.9	899.4
67.5°	8602.4	4829.6	1555.9	1106.2	962.3	827.4	786.9	818.4	831.9	836.4	840.9
70°	6079.7	3215.2	1299.6	957.8	845.4	755.5	710.5	715.0	710.5	724.0	724.0
72.5°	3305.2	1852.7	1056.8	813.9	728.5	656.5	625.1	602.6	602.6	598.1	598.1
73°	2828.5	1663.8	1007.3	791.4	697.0	638.6	602.6	584.6	584.6	580.1	575.6
75°	1587.4	1218.6	863.4	679.0	602.6	557.6	530.6	503.6	499.1	499.1	499.1
77.5°	1043.3	948.8	688.0	544.1	485.7	445.2	436.2	409.2	409.2	409.2	404.7
80°	782.4	746.5	530.6	413.7	373.2	341.8	332.8	314.8	310.3	292.3	296.8
82.5°	521.6	589.1	386.7	292.3	251.8	233.8	233.8	229.3	215.8	193.4	193.4
85°	413.7	481.2	278.8	179.9	148.4	125.9	130.4	125.9	121.4	98.9	94.4
87.5°	76.4	193.4	80.9	49.5	36.0	22.5	22.5	13.5	9.0	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)