

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: P483184

Luminaire Tested: **IFLD-S-SA2C-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483184  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT  
distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

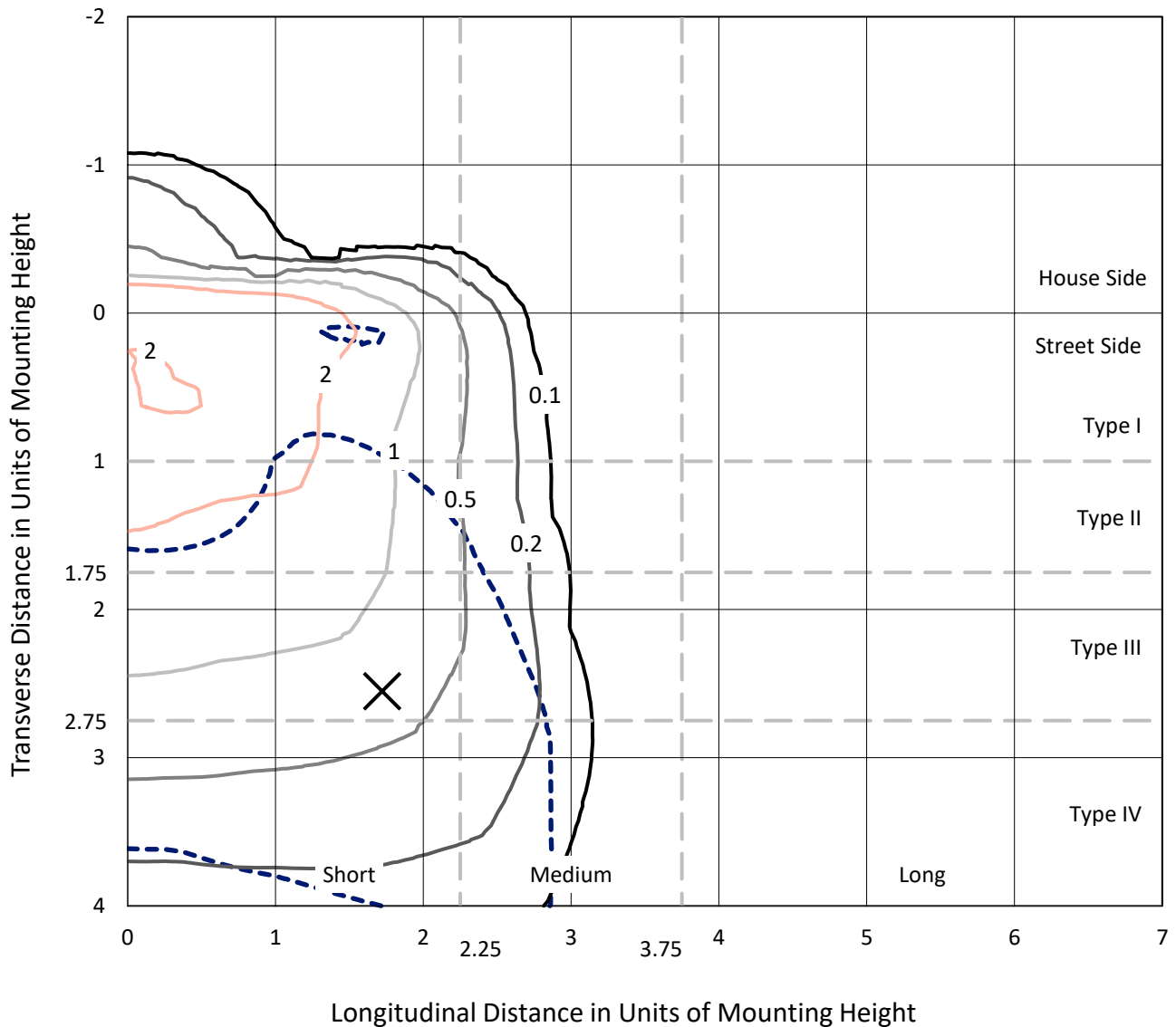
Lumens per Lamp: N/A  
Luminaire Lumens: 10136.7 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

REPORT NUMBER: P483184  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

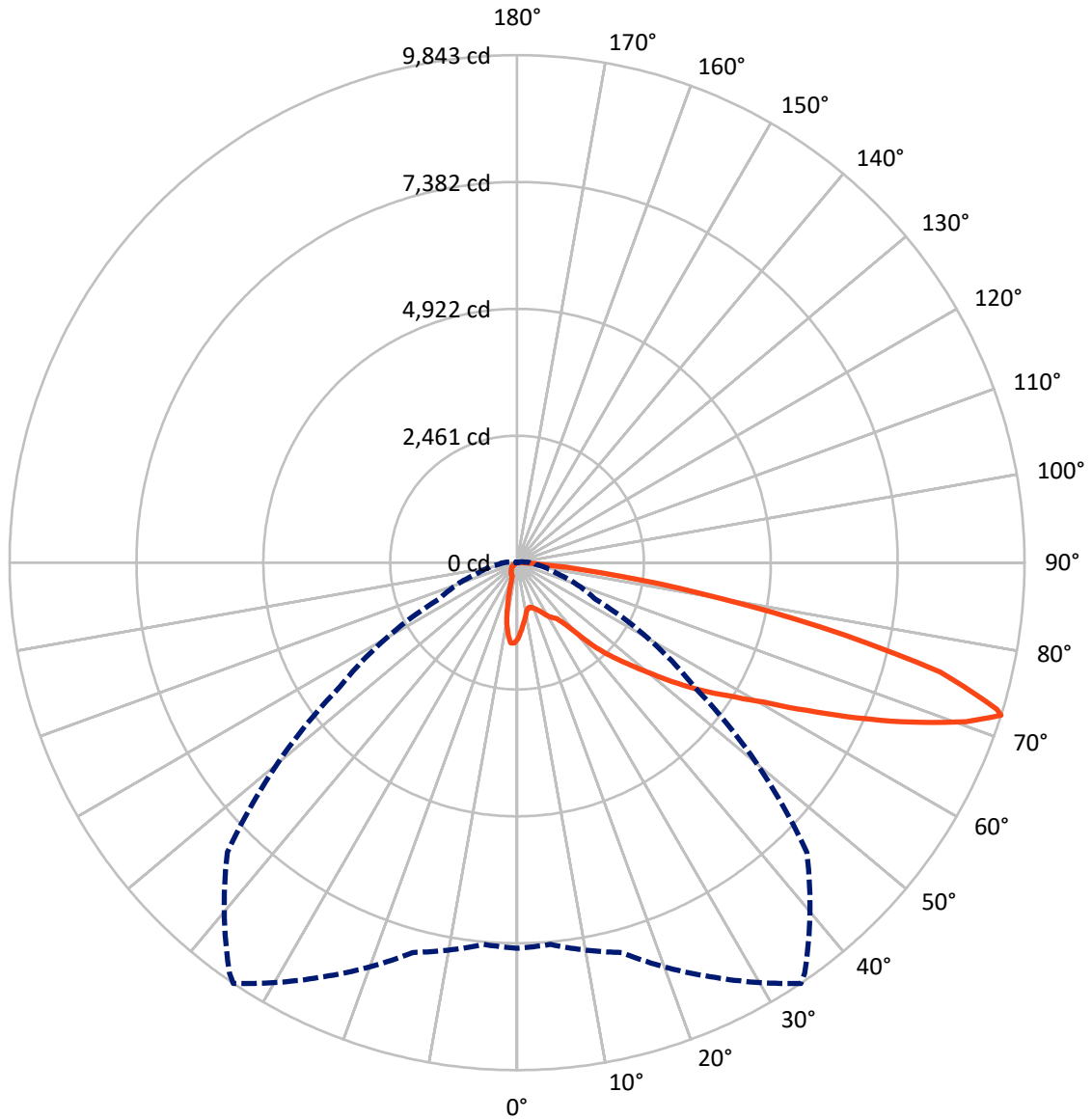
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483184  
CATALOG NUMBER: IFLD-S-SA2C-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483184  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1037.8	0.0	1037.8
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	9099.0	0.0	9099.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	10136.7	0.0	10136.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	1.3
10°-20°	291.5	2.9
20°-30°	439.9	4.3
30°-40°	713.9	7.0
40°-50°	1342.5	13.2
50°-60°	2195.0	21.7
60°-70°	2917.9	28.8
70°-80°	1954.1	19.3
80°-90°	153.1	1.5
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°	10136.7	100.0
0°-180°	10136.7	100.0



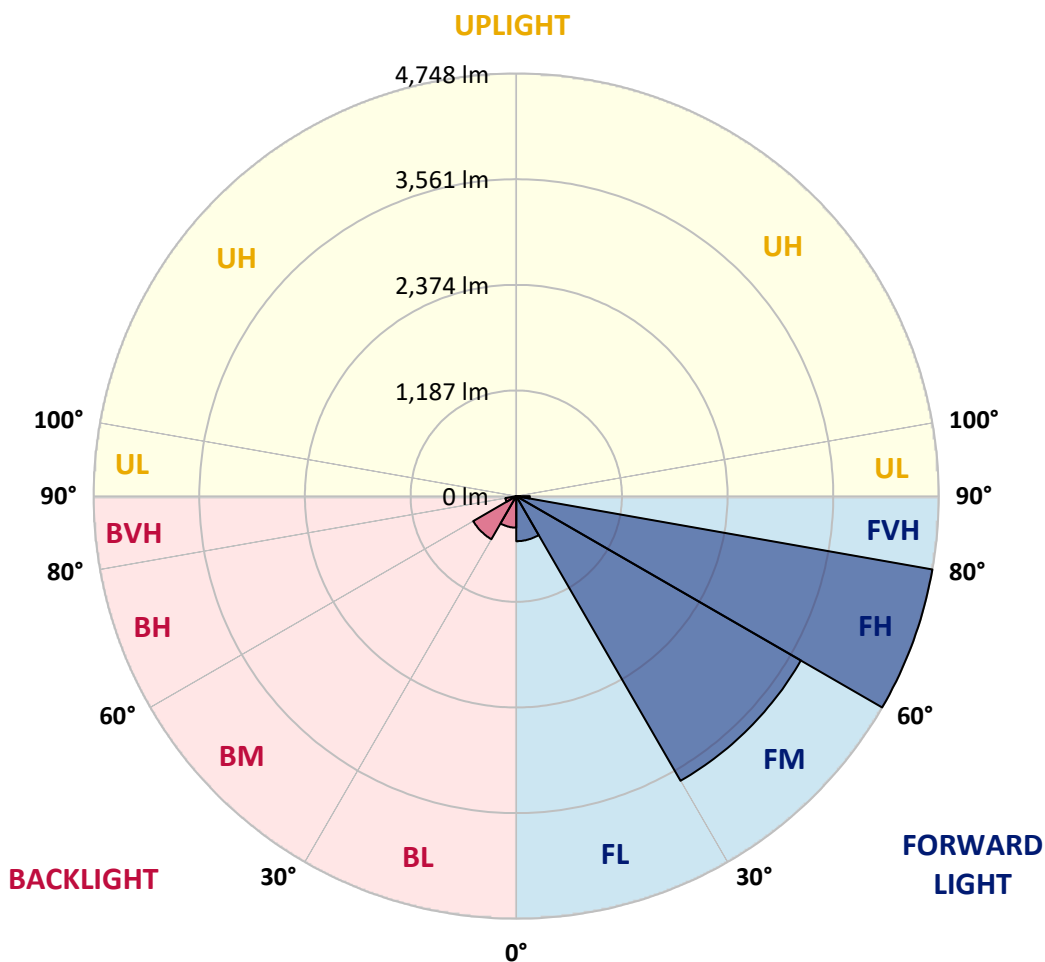
REPORT NUMBER: P483184  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.0	5.0			
FM (30°-60°)	3692.8	36.4			
FH (60°-80°)	4748.0	46.8			G2/5000
FVH (80°-90°)	152.2	1.5			G2/225
BL (0°-30°)	354.1	3.5	B1/500		
BM (30°-60°)	558.6	5.5	B1/1000		
BH (60°-80°)	124.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P483184

CATALOG NUMBER: IFLD-S-SA2C-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0
2.5°	1311.6	1308.6	1317.4	1332.1	1346.7	1340.9	1368.7	1398.0	1418.5	1446.4	1480.1
5°	1146.0	1153.3	1162.1	1191.4	1210.4	1214.8	1266.1	1304.2	1367.2	1431.7	1491.8
7.5°	995.0	1003.8	1021.4	1053.6	1093.2	1103.5	1154.8	1231.0	1313.0	1398.0	1496.2
10°	885.1	893.9	913.0	933.5	986.2	986.2	1056.6	1162.1	1269.1	1368.7	1497.7
12.5°	861.7	866.1	864.6	880.7	914.4	921.8	990.6	1106.4	1231.0	1358.5	1521.1
15°	889.5	892.4	877.8	869.0	898.3	905.6	970.1	1072.7	1206.0	1364.3	1559.2
17.5°	945.2	934.9	905.6	892.4	917.4	921.8	981.8	1071.2	1203.1	1380.4	1603.2
20°	977.4	989.2	937.9	913.0	948.1	954.0	1018.5	1094.7	1217.8	1408.3	1664.7
22.5°	1034.6	1040.5	971.6	955.5	989.2	989.2	1062.4	1141.6	1252.9	1453.7	1738.0
25°	1115.2	1107.9	1027.3	1011.1	1043.4	1056.6	1129.8	1216.3	1307.2	1496.2	1805.4
27.5°	1178.2	1182.6	1116.7	1074.2	1128.4	1137.2	1216.3	1296.9	1348.2	1531.4	1887.5
30°	1272.0	1263.2	1192.9	1144.5	1211.9	1213.4	1289.6	1373.1	1427.3	1594.4	2010.6
32.5°	1383.4	1365.8	1285.2	1216.3	1270.5	1283.7	1361.4	1483.0	1550.4	1713.1	2201.1
35°	1619.3	1576.8	1444.9	1337.9	1342.3	1348.2	1468.4	1642.7	1720.4	1864.0	2456.1
37.5°	1963.7	1946.1	1796.6	1592.9	1515.3	1497.7	1632.5	1853.8	1950.5	2063.3	2787.2
40°	2305.1	2280.2	2141.0	1987.1	1846.4	1811.3	1878.7	2133.7	2221.6	2340.3	3127.2
42.5°	2684.7	2640.7	2476.6	2352.0	2264.1	2226.0	2199.6	2485.4	2585.0	2665.6	3459.9
45°	3068.6	2996.8	2759.4	2664.1	2617.3	2596.7	2593.8	2927.9	2988.0	3004.1	3829.2
47.5°	3405.7	3328.0	3112.6	3005.6	2970.4	2964.6	3128.7	3437.9	3391.0	3348.5	4240.9
50°	3665.0	3615.2	3459.9	3421.8	3395.4	3385.1	3769.1	3962.5	3745.6	3670.9	4602.9
52.5°	4066.6	3955.2	3779.3	3792.5	3884.8	3886.3	4418.3	4460.8	4040.2	3892.2	4944.3
55°	4387.5	4314.2	4170.6	4151.6	4394.8	4421.2	5000.0	4838.8	4204.3	4103.2	5070.4
57.5°	4765.6	4731.9	4627.8	4630.7	4885.7	4941.4	5517.3	5158.3	4340.6	4239.5	5089.4
60°	5312.2	5215.5	5161.2	5186.1	5486.6	5540.8	6018.5	5388.4	4406.5	4328.9	5042.5
62.5°	5915.9	5803.1	5744.5	5872.0	6310.1	6318.9	6399.5	5592.1	4365.5	4352.3	4740.7
65°	6642.8	6531.4	6484.5	6741.0	7261.2	7229.0	6934.4	5678.5	4235.1	4116.4	3947.9
67.5°	7366.7	7299.3	7202.6	7611.4	8259.1	8259.1	7489.8	5646.3	3893.6	3304.5	2582.1
70°	7709.6	7756.5	7910.4	8552.2	9239.5	9169.2	8037.9	5275.5	2898.6	1774.6	1015.5
72°	7481.0	7432.6	7829.8	8860.0	9843.3	9727.5	7945.5	4194.1	1675.0	778.1	353.2
72.5°	7088.3	7133.7	7680.3	8817.5	9730.4	9825.7	7719.9	3868.7	1377.5	619.9	266.7
75°	4346.5	4424.1	5732.7	7486.9	8479.0	8372.0	5971.6	1843.5	529.0	263.8	95.3
77.5°	1587.1	1651.5	2781.4	4711.3	6030.2	5962.8	3455.5	655.0	287.2	196.4	48.4
80°	413.3	447.0	945.2	2173.2	3546.3	3550.7	1446.4	262.3	194.9	161.2	29.3
82.5°	82.1	90.9	290.2	845.6	1657.4	1635.4	457.2	140.7	146.5	131.9	20.5
85°	10.3	13.2	61.5	287.2	536.3	480.7	112.8	70.3	108.4	102.6	13.2
87.5°	1.5	1.5	14.7	65.9	112.8	109.9	23.4	22.0	48.4	63.0	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483184

CATALOG NUMBER: IFLD-S-SA2C-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0	1483.0
2.5°	1499.1	1505.0	1525.5	1543.1	1563.6	1569.5	1560.7	1575.3	1554.8	1566.5	1569.5
5°	1502.1	1535.8	1573.9	1598.8	1592.9	1578.3	1566.5	1527.0	1499.1	1488.9	1510.9
7.5°	1522.6	1560.7	1601.7	1601.7	1569.5	1493.3	1420.0	1349.7	1291.0	1261.7	1286.6
10°	1549.0	1588.5	1631.0	1575.3	1455.2	1316.0	1211.9	1080.0	990.6	943.7	948.1
12.5°	1584.1	1639.8	1654.5	1525.5	1326.2	1119.6	930.5	747.4	662.4	595.0	596.4
15°	1629.6	1683.8	1639.8	1417.1	1162.1	857.3	630.1	455.7	388.3	353.2	353.2
17.5°	1689.6	1730.7	1635.4	1317.4	940.8	586.2	386.9	307.7	293.1	287.2	287.2
20°	1760.0	1790.8	1592.9	1162.1	699.0	376.6	284.3	275.5	277.0	274.0	274.0
22.5°	1839.1	1849.4	1544.6	981.8	473.3	278.4	265.2	266.7	268.2	265.2	266.7
25°	1922.6	1894.8	1474.2	770.8	315.1	253.5	256.4	259.4	260.8	262.3	262.3
27.5°	2016.4	1960.7	1376.0	564.2	246.2	238.9	247.7	256.4	257.9	257.9	256.4
30°	2154.2	2061.9	1280.8	382.5	216.9	222.7	237.4	247.7	255.0	255.0	253.5
32.5°	2328.6	2167.4	1147.4	260.8	200.8	203.7	215.4	235.9	252.1	253.5	249.1
35°	2570.4	2294.9	1008.2	208.1	189.0	190.5	197.8	214.0	241.8	250.6	249.1
37.5°	2825.3	2439.9	835.3	187.6	180.2	178.8	183.2	196.4	221.3	243.3	244.7
40°	3096.4	2592.3	653.6	177.3	172.9	170.0	171.5	177.3	196.4	224.2	230.1
42.5°	3351.4	2730.1	490.9	167.1	165.6	162.7	162.7	164.1	174.4	193.4	196.4
45°	3626.9	2842.9	373.7	159.7	155.3	156.8	150.9	148.0	155.3	156.8	155.3
47.5°	3884.8	2955.8	298.9	150.9	146.5	146.5	139.2	133.4	133.4	120.2	118.7
50°	4126.6	3017.3	238.9	139.2	137.8	136.3	126.0	115.8	107.0	90.9	87.9
52.5°	4327.4	3014.4	184.6	124.6	129.0	124.6	108.4	93.8	80.6	65.9	63.0
55°	4387.5	2873.7	139.2	102.6	109.9	104.0	86.5	73.3	58.6	46.9	45.4
57.5°	4336.2	2659.7	105.5	79.1	85.0	79.1	65.9	54.2	41.0	32.2	29.3
60°	4164.7	2409.2	82.1	61.5	64.5	60.1	49.8	41.0	29.3	20.5	17.6
62.5°	3839.4	2095.6	63.0	48.4	46.9	46.9	38.1	30.8	20.5	11.7	10.3
65°	3150.7	1634.0	48.4	33.7	33.7	33.7	29.3	22.0	13.2	5.9	2.9
67.5°	1978.3	951.1	39.6	26.4	24.9	24.9	20.5	14.7	7.3	1.5	0.0
70°	744.4	348.8	30.8	20.5	19.1	19.1	14.7	8.8	4.4	0.0	0.0
72°	256.4	133.4	24.9	14.7	14.7	13.2	10.3	7.3	2.9	0.0	0.0
72.5°	211.0	107.0	23.4	14.7	13.2	13.2	10.3	7.3	2.9	0.0	0.0
75°	76.2	44.0	16.1	10.3	8.8	8.8	7.3	4.4	1.5	0.0	0.0
77.5°	38.1	27.8	13.2	8.8	7.3	4.4	4.4	2.9	1.5	0.0	0.0
80°	23.4	17.6	7.3	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
82.5°	16.1	10.3	4.4	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.3	4.4	2.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0	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)