

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: P483383

Luminaire Tested: **IFLD-S-SA3B-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483383  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

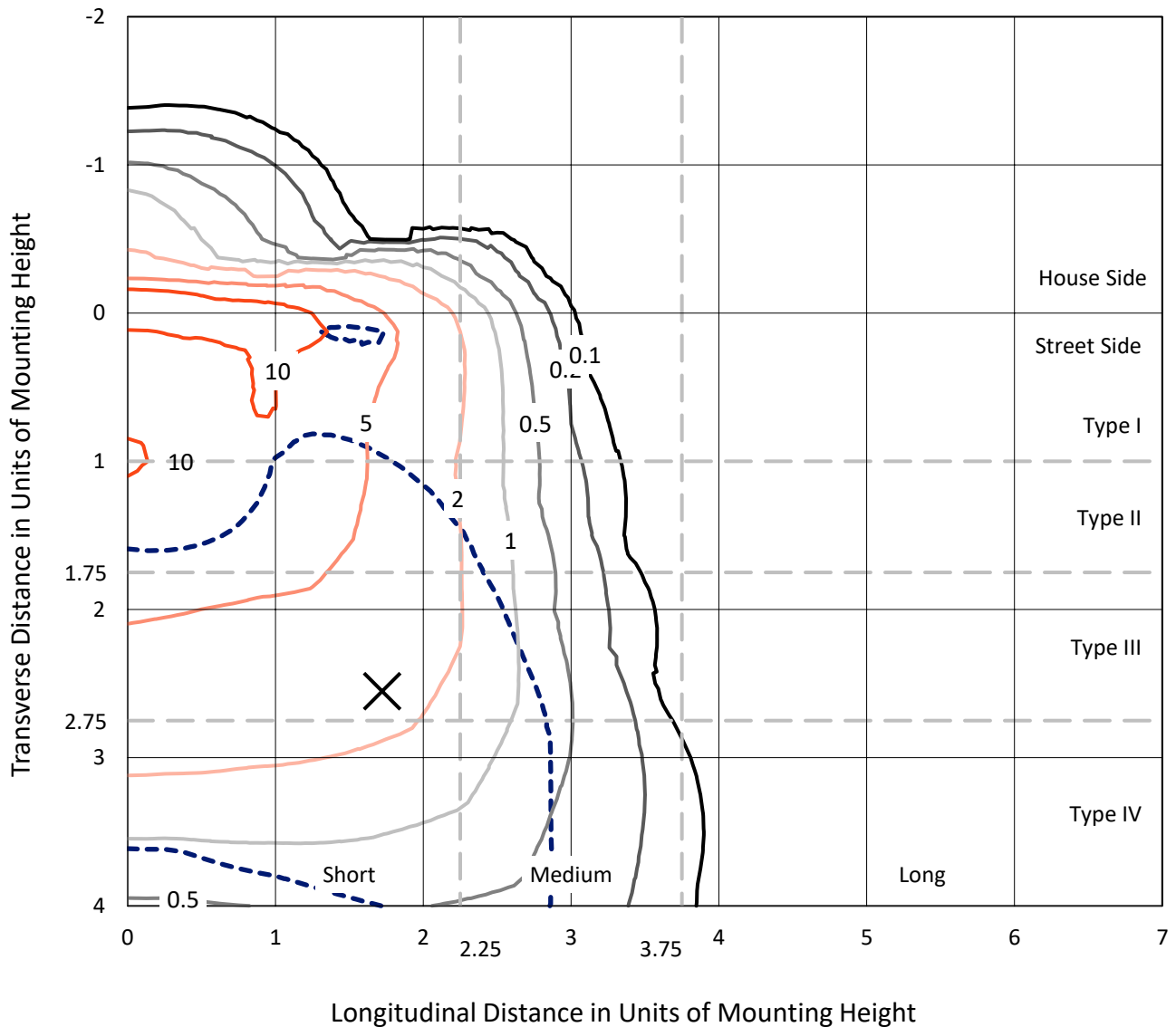
Lumens per Lamp: N/A  
Luminaire Lumens: 9776.7 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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

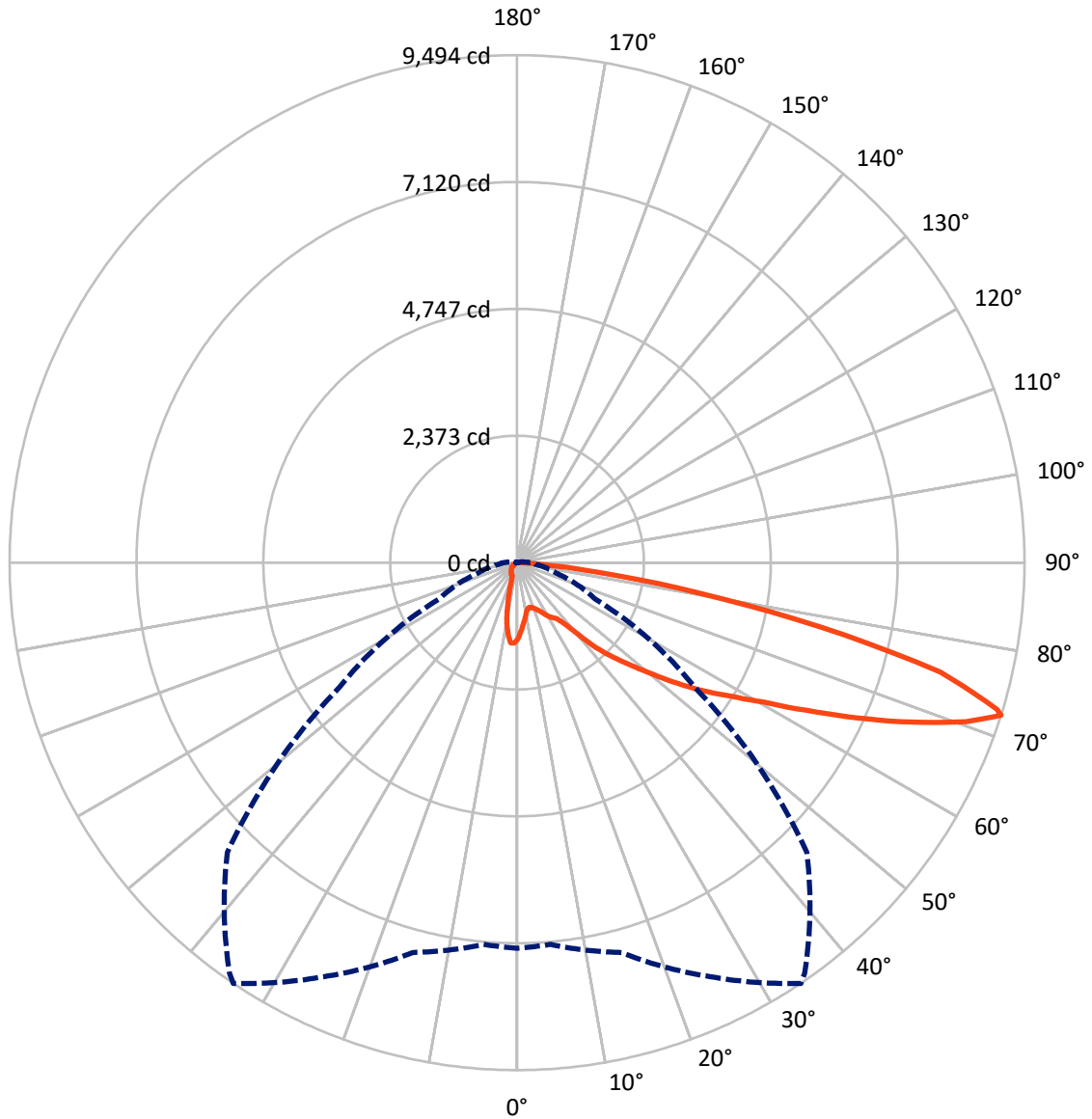
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1000.9	0.0	1000.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	8775.8	0.0	8775.8
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	9776.7	0.0	9776.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.2	1.3
10°-20°	281.1	2.9
20°-30°	424.3	4.3
30°-40°	688.6	7.0
40°-50°	1294.8	13.2
50°-60°	2117.0	21.7
60°-70°	2814.3	28.8
70°-80°	1884.7	19.3
80°-90°	147.7	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°	9776.7	100.0
0°-180°	9776.7	100.0

**Coefficient of Utilization**



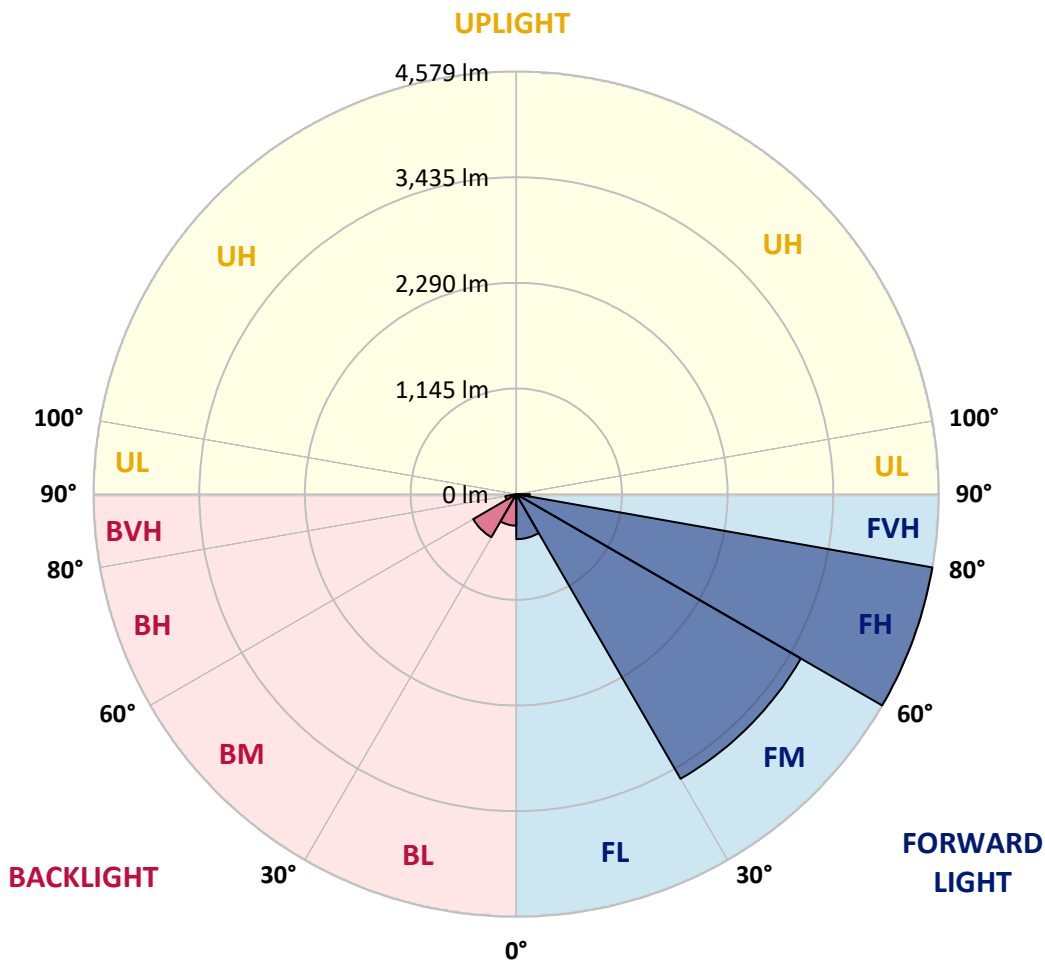
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.1	5.0			
FM (30°-60°)	3561.6	36.4			
FH (60°-80°)	4579.3	46.8			G2/5000
FVH (80°-90°)	146.8	1.5			G2/225
BL (0°-30°)	341.5	3.5	B1/500		
BM (30°-60°)	538.8	5.5	B1/1000		
BH (60°-80°)	119.7	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3
2.5°	1265.0	1262.2	1270.6	1284.8	1298.9	1293.2	1320.1	1348.4	1368.2	1395.0	1427.5
5°	1105.3	1112.3	1120.8	1149.1	1167.5	1171.7	1221.2	1257.9	1318.7	1380.9	1438.8
7.5°	959.7	968.2	985.1	1016.2	1054.4	1064.3	1113.7	1187.2	1266.4	1348.4	1443.1
10°	853.7	862.2	880.5	900.3	951.2	951.2	1019.0	1120.8	1224.0	1320.1	1444.5
12.5°	831.1	835.3	833.9	849.4	882.0	889.0	955.4	1067.1	1187.2	1310.2	1467.1
15°	857.9	860.7	846.6	838.1	866.4	873.5	935.7	1034.6	1163.2	1315.9	1503.8
17.5°	911.6	901.7	873.5	860.7	884.8	889.0	947.0	1033.2	1160.4	1331.4	1546.2
20°	942.7	954.0	904.6	880.5	914.5	920.1	982.3	1055.8	1174.5	1358.3	1605.6
22.5°	997.8	1003.5	937.1	921.5	954.0	954.0	1024.7	1101.0	1208.4	1402.1	1676.3
25°	1075.6	1068.5	990.8	975.2	1006.3	1019.0	1089.7	1173.1	1260.7	1443.1	1741.3
27.5°	1136.4	1140.6	1077.0	1036.0	1088.3	1096.8	1173.1	1250.8	1300.3	1477.0	1820.4
30°	1226.8	1218.3	1150.5	1103.9	1168.9	1170.3	1243.8	1324.3	1376.6	1537.8	1939.2
32.5°	1334.2	1317.3	1239.5	1173.1	1225.4	1238.1	1313.0	1430.3	1495.4	1652.2	2122.9
35°	1561.8	1520.8	1393.6	1290.4	1294.7	1300.3	1416.2	1584.4	1659.3	1797.8	2368.8
37.5°	1893.9	1877.0	1732.8	1536.3	1461.4	1444.5	1574.5	1787.9	1881.2	1990.0	2688.3
40°	2223.3	2199.2	2065.0	1916.5	1780.9	1746.9	1812.0	2057.9	2142.7	2257.2	3016.2
42.5°	2589.3	2546.9	2388.6	2268.5	2183.7	2146.9	2121.5	2397.1	2493.2	2570.9	3337.0
45°	2959.6	2890.4	2661.4	2569.5	2524.3	2504.5	2501.7	2823.9	2881.9	2897.4	3693.2
47.5°	3284.7	3209.8	3002.0	2898.8	2864.9	2859.3	3017.6	3315.8	3270.6	3229.6	4090.3
50°	3534.9	3486.8	3337.0	3300.2	3274.8	3264.9	3635.2	3821.8	3612.6	3540.5	4439.4
52.5°	3922.1	3814.7	3645.1	3657.8	3746.9	3748.3	4261.3	4302.3	3896.7	3753.9	4768.8
55°	4231.7	4161.0	4022.5	4004.1	4238.7	4264.2	4822.5	4667.0	4055.0	3957.5	4890.3
57.5°	4596.3	4563.8	4463.5	4466.3	4712.2	4765.9	5321.4	4975.1	4186.4	4088.9	4908.7
60°	5123.5	5030.2	4977.9	5002.0	5291.7	5344.0	5804.8	5197.0	4250.0	4175.1	4863.4
62.5°	5705.8	5597.0	5540.5	5663.4	6086.0	6094.5	6172.2	5393.5	4210.5	4197.7	4572.3
65°	6406.9	6299.4	6254.2	6501.6	7003.3	6972.2	6688.1	5476.9	4084.7	3970.2	3807.7
67.5°	7105.1	7040.1	6946.8	7341.1	7965.8	7965.8	7223.8	5445.8	3755.4	3187.2	2490.4
70°	7435.8	7481.0	7629.4	8248.5	8911.4	8843.5	7752.4	5088.2	2795.7	1711.6	979.5
72°	7215.3	7168.7	7551.7	8545.3	9493.7	9382.0	7663.4	4045.1	1615.5	750.5	340.6
72.5°	6836.5	6880.3	7407.5	8504.3	9384.9	9476.7	7445.7	3731.3	1328.6	597.9	257.2
75°	4192.1	4267.0	5529.2	7221.0	8177.8	8074.7	5759.5	1778.0	510.2	254.4	91.9
77.5°	1530.7	1592.9	2682.6	4544.0	5816.1	5751.1	3332.8	631.8	277.0	189.4	46.6
80°	398.6	431.1	911.6	2096.0	3420.4	3424.6	1395.0	253.0	188.0	155.5	28.3
82.5°	79.1	87.6	279.8	815.5	1598.5	1577.3	441.0	135.7	141.3	127.2	19.8
85°	9.9	12.7	59.4	277.0	517.3	463.6	108.8	67.8	104.6	98.9	12.7
87.5°	1.4	1.4	14.1	63.6	108.8	106.0	22.6	21.2	46.6	60.8	7.1
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°	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3	1430.3
2.5°	1445.9	1451.5	1471.3	1488.3	1508.1	1513.7	1505.3	1519.4	1499.6	1510.9	1513.7
5°	1448.7	1481.2	1518.0	1542.0	1536.3	1522.2	1510.9	1472.7	1445.9	1436.0	1457.2
7.5°	1468.5	1505.3	1544.8	1544.8	1513.7	1440.2	1369.6	1301.7	1245.2	1216.9	1240.9
10°	1493.9	1532.1	1573.1	1519.4	1403.5	1269.2	1168.9	1041.7	955.4	910.2	914.5
12.5°	1527.9	1581.6	1595.7	1471.3	1279.1	1079.8	897.5	720.8	638.8	573.8	575.2
15°	1571.7	1624.0	1581.6	1366.7	1120.8	826.8	607.8	439.6	374.5	340.6	340.6
17.5°	1629.6	1669.2	1577.3	1270.6	907.4	565.4	373.1	296.8	282.7	277.0	277.0
20°	1697.5	1727.2	1536.3	1120.8	674.2	363.2	274.2	265.7	267.1	264.3	264.3
22.5°	1773.8	1783.7	1489.7	947.0	456.5	268.5	255.8	257.2	258.6	255.8	257.2
25°	1854.4	1827.5	1421.9	743.4	303.9	244.5	247.3	250.2	251.6	253.0	253.0
27.5°	1944.8	1891.1	1327.2	544.2	237.4	230.4	238.9	247.3	248.8	248.8	247.3
30°	2077.7	1988.6	1235.3	368.9	209.2	214.8	229.0	238.9	245.9	245.9	244.5
32.5°	2245.9	2090.4	1106.7	251.6	193.6	196.5	207.8	227.6	243.1	244.5	240.3
35°	2479.1	2213.4	972.4	200.7	182.3	183.7	190.8	206.4	233.2	241.7	240.3
37.5°	2725.0	2353.3	805.6	180.9	173.8	172.4	176.7	189.4	213.4	234.6	236.0
40°	2986.5	2500.3	630.4	171.0	166.8	164.0	165.4	171.0	189.4	216.2	221.9
42.5°	3232.4	2633.1	473.5	161.1	159.7	156.9	156.9	158.3	168.2	186.6	189.4
45°	3498.1	2742.0	360.4	154.1	149.8	151.2	145.6	142.8	149.8	151.2	149.8
47.5°	3746.9	2850.8	288.3	145.6	141.3	141.3	134.3	128.6	128.6	115.9	114.5
50°	3980.1	2910.2	230.4	134.3	132.9	131.4	121.6	111.7	103.2	87.6	84.8
52.5°	4173.7	2907.3	178.1	120.1	124.4	120.1	104.6	90.5	77.7	63.6	60.8
55°	4231.7	2771.6	134.3	98.9	106.0	100.4	83.4	70.7	56.5	45.2	43.8
57.5°	4182.2	2565.3	101.8	76.3	82.0	76.3	63.6	52.3	39.6	31.1	28.3
60°	4016.8	2323.6	79.1	59.4	62.2	57.9	48.1	39.6	28.3	19.8	17.0
62.5°	3703.1	2021.1	60.8	46.6	45.2	45.2	36.7	29.7	19.8	11.3	9.9
65°	3038.8	1575.9	46.6	32.5	32.5	32.5	28.3	21.2	12.7	5.7	2.8
67.5°	1908.1	917.3	38.2	25.4	24.0	24.0	19.8	14.1	7.1	1.4	0.0
70°	718.0	336.4	29.7	19.8	18.4	18.4	14.1	8.5	4.2	0.0	0.0
72°	247.3	128.6	24.0	14.1	14.1	12.7	9.9	7.1	2.8	0.0	0.0
72.5°	203.5	103.2	22.6	14.1	12.7	12.7	9.9	7.1	2.8	0.0	0.0
75°	73.5	42.4	15.5	9.9	8.5	8.5	7.1	4.2	1.4	0.0	0.0
77.5°	36.7	26.9	12.7	8.5	7.1	4.2	4.2	2.8	1.4	0.0	0.0
80°	22.6	17.0	7.1	5.7	4.2	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	15.5	9.9	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.9	4.2	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.8	1.4	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)