

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: P483145

Luminaire Tested: **IFLD-S-SA2C-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483145
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

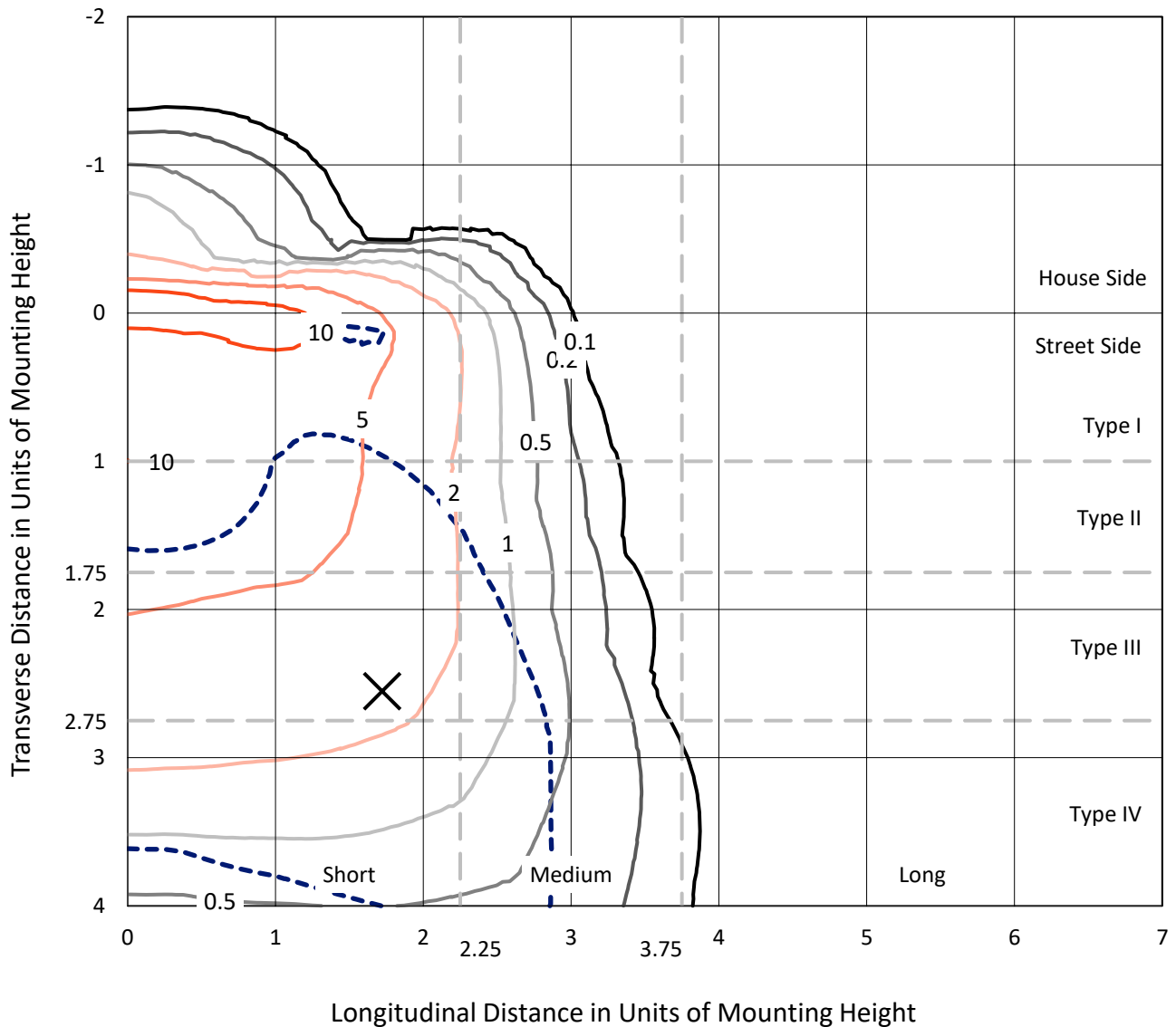
Lumens per Lamp: N/A
Luminaire Lumens: 9358.7 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

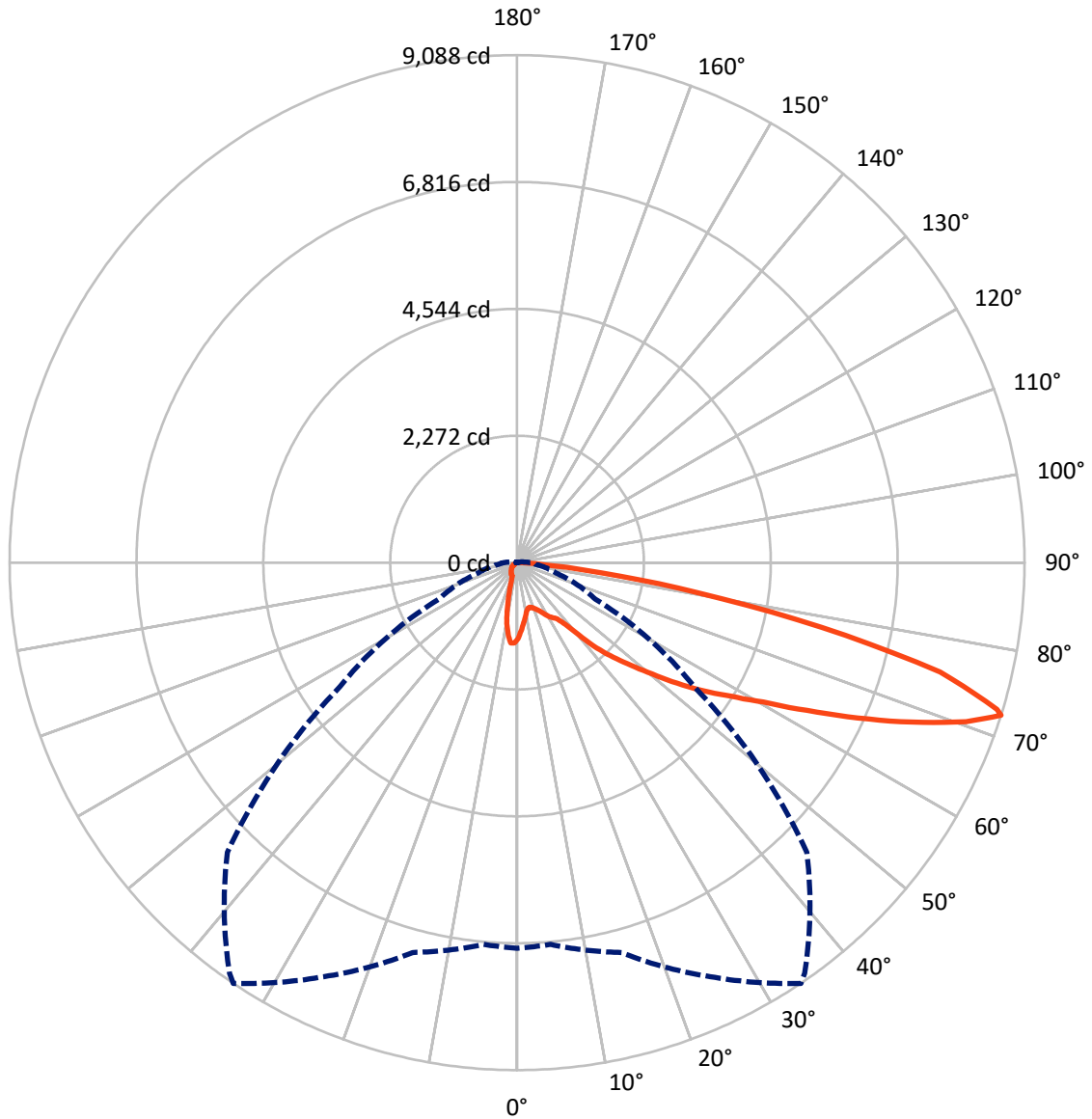
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 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
House Side	Lumens	958.1	0.0	958.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8400.6	0.0	8400.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	9358.7	0.0	9358.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.3
10°-20°	269.1	2.9
20°-30°	406.2	4.3
30°-40°	659.1	7.0
40°-50°	1239.5	13.2
50°-60°	2026.5	21.7
60°-70°	2694.0	28.8
70°-80°	1804.1	19.3
80°-90°	141.4	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°	9358.7	100.0
0°-180°	9358.7	100.0

Coefficient of Utilization



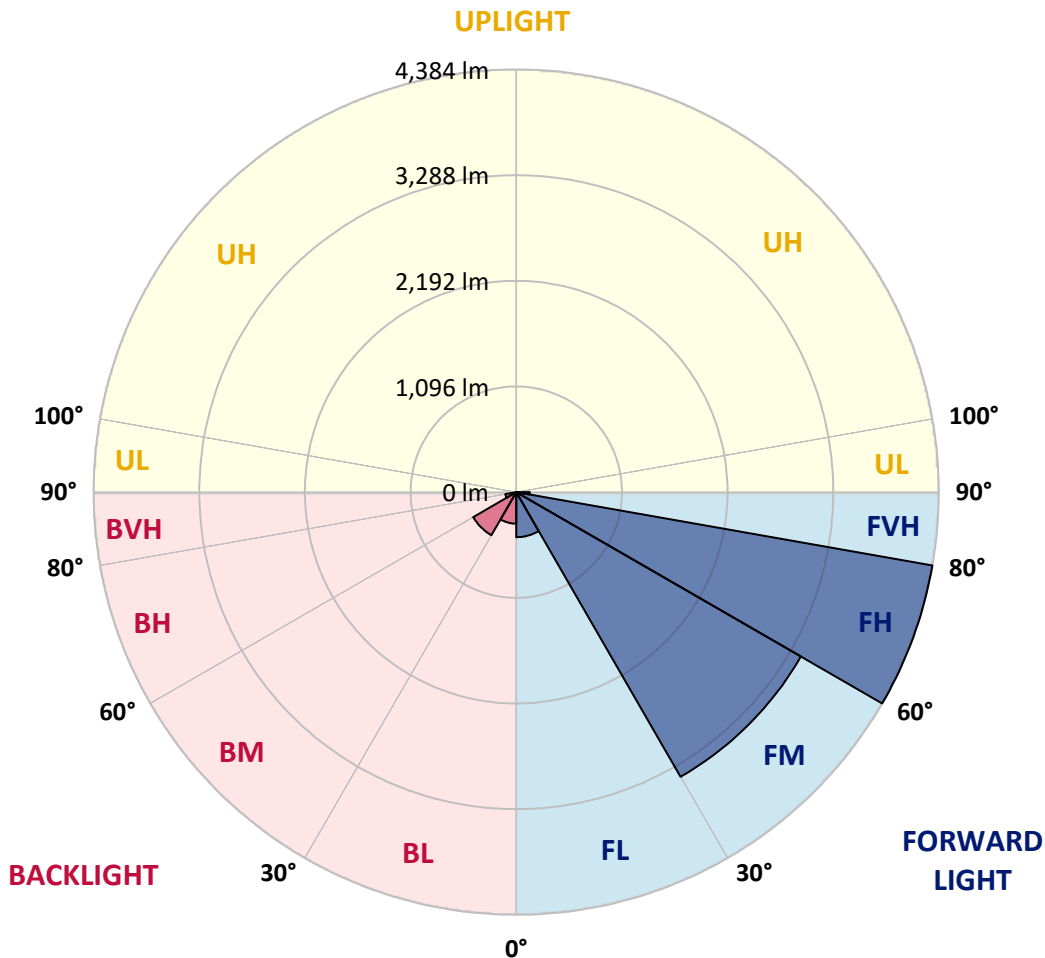
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.2	5.0			
FM (30°-60°)	3409.4	36.4			
FH (60°-80°)	4383.5	46.8			G2/5000
FVH (80°-90°)	140.5	1.5			G2/225
BL (0°-30°)	326.9	3.5	B1/500		
BM (30°-60°)	515.7	5.5	B1/1000		
BH (60°-80°)	114.6	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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1210.9	1208.2	1216.3	1229.8	1243.4	1238.0	1263.7	1290.7	1309.7	1335.4	1366.5
5°	1058.0	1064.8	1072.9	1100.0	1117.5	1121.6	1169.0	1204.1	1262.3	1321.8	1377.3
7.5°	918.7	926.8	943.0	972.8	1009.3	1018.8	1066.1	1136.5	1212.2	1290.7	1381.4
10°	817.2	825.3	842.9	861.8	910.5	910.5	975.5	1072.9	1171.7	1263.7	1382.7
12.5°	795.5	799.6	798.2	813.1	844.2	851.0	914.6	1021.5	1136.5	1254.2	1404.4
15°	821.2	823.9	810.4	802.3	829.4	836.1	895.7	990.4	1113.5	1259.6	1439.5
17.5°	872.7	863.2	836.1	823.9	846.9	851.0	906.5	989.0	1110.8	1274.5	1480.1
20°	902.4	913.2	865.9	842.9	875.4	880.8	940.3	1010.7	1124.3	1300.2	1537.0
22.5°	955.2	960.6	897.0	882.1	913.2	913.2	980.9	1054.0	1156.8	1342.1	1604.6
25°	1029.6	1022.8	948.4	933.5	963.3	975.5	1043.1	1123.0	1206.8	1381.4	1666.8
27.5°	1087.8	1091.8	1031.0	991.7	1041.8	1049.9	1123.0	1197.4	1244.7	1413.8	1742.6
30°	1174.4	1166.2	1101.3	1056.7	1118.9	1120.2	1190.6	1267.7	1317.8	1472.0	1856.3
32.5°	1277.2	1261.0	1186.5	1123.0	1173.0	1185.2	1256.9	1369.2	1431.4	1581.6	2032.1
35°	1495.0	1455.8	1334.0	1235.2	1239.3	1244.7	1355.7	1516.7	1588.4	1721.0	2267.5
37.5°	1813.0	1796.7	1658.7	1470.7	1399.0	1382.7	1507.2	1711.5	1800.8	1905.0	2573.3
40°	2128.2	2105.2	1976.7	1834.6	1704.7	1672.2	1734.5	1969.9	2051.1	2160.7	2887.2
42.5°	2478.6	2438.0	2286.5	2171.5	2090.3	2055.1	2030.8	2294.6	2386.6	2461.0	3194.3
45°	2833.1	2766.8	2547.6	2459.7	2416.4	2397.4	2394.7	2703.2	2758.7	2773.6	3535.3
47.5°	3144.3	3072.6	2873.7	2774.9	2742.4	2737.0	2888.6	3174.0	3130.7	3091.5	3915.4
50°	3383.7	3337.7	3194.3	3159.1	3134.8	3125.3	3479.8	3658.4	3458.1	3389.1	4249.6
52.5°	3754.4	3651.6	3489.3	3501.4	3586.7	3588.0	4079.2	4118.4	3730.1	3593.4	4564.9
55°	4050.7	3983.1	3850.5	3832.9	4057.5	4081.9	4616.3	4467.5	3881.6	3788.3	4681.2
57.5°	4399.8	4368.7	4272.6	4275.3	4510.7	4562.2	5093.9	4762.4	4007.4	3914.1	4698.8
60°	4904.5	4815.2	4765.1	4788.1	5065.5	5115.5	5556.6	4974.8	4068.3	3996.6	4655.5
62.5°	5461.9	5357.7	5303.6	5421.3	5825.8	5833.9	5908.3	5162.9	4030.4	4018.3	4376.8
65°	6132.9	6030.1	5986.8	6223.6	6703.9	6674.1	6402.2	5242.7	3910.0	3800.4	3644.9
67.5°	6801.3	6739.1	6649.8	7027.2	7625.2	7625.2	6914.9	5212.9	3594.8	3050.9	2383.9
70°	7117.9	7161.2	7303.2	7895.8	8530.4	8465.4	7420.9	4870.6	2676.1	1638.4	937.6
72°	6906.8	6862.2	7228.8	8180.0	9087.8	8980.9	7335.7	3872.2	1546.4	718.4	326.1
72.5°	6544.2	6586.2	7090.8	8140.7	8983.6	9071.6	7127.4	3571.8	1271.8	572.3	246.2
75°	4012.9	4084.6	5292.8	6912.2	7828.2	7729.4	5513.3	1702.0	488.4	243.5	87.9
77.5°	1465.2	1524.8	2567.9	4349.7	5567.4	5505.2	3190.3	604.8	265.2	181.3	44.6
80°	381.5	412.7	872.7	2006.4	3274.1	3278.2	1335.4	242.2	179.9	148.8	27.1
82.5°	75.8	83.9	267.9	780.7	1530.2	1509.9	422.1	129.9	135.3	121.8	18.9
85°	9.5	12.2	56.8	265.2	495.2	443.8	104.2	64.9	100.1	94.7	12.2
87.5°	1.4	1.4	13.5	60.9	104.2	101.5	21.6	20.3	44.6	58.2	6.8
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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1384.1	1389.5	1408.4	1424.7	1443.6	1449.0	1440.9	1454.4	1435.5	1446.3	1449.0
5°	1386.8	1417.9	1453.1	1476.1	1470.7	1457.1	1446.3	1409.8	1384.1	1374.6	1394.9
7.5°	1405.7	1440.9	1478.8	1478.8	1449.0	1378.7	1311.0	1246.1	1192.0	1164.9	1187.9
10°	1430.1	1466.6	1505.8	1454.4	1343.5	1215.0	1118.9	997.1	914.6	871.3	875.4
12.5°	1462.5	1514.0	1527.5	1408.4	1224.4	1033.7	859.1	690.0	611.5	549.3	550.7
15°	1504.5	1554.5	1514.0	1308.3	1072.9	791.5	581.8	420.8	358.5	326.1	326.1
17.5°	1560.0	1597.8	1509.9	1216.3	868.6	541.2	357.2	284.1	270.6	265.2	265.2
20°	1624.9	1653.3	1470.7	1072.9	645.4	347.7	262.5	254.4	255.7	253.0	253.0
22.5°	1698.0	1707.4	1426.0	906.5	437.0	257.1	244.9	246.2	247.6	244.9	246.2
25°	1775.1	1749.4	1361.1	711.7	290.9	234.1	236.8	239.5	240.8	242.2	242.2
27.5°	1861.7	1810.3	1270.4	520.9	227.3	220.5	228.6	236.8	238.1	238.1	236.8
30°	1988.8	1903.6	1182.5	353.1	200.2	205.6	219.2	228.6	235.4	235.4	234.1
32.5°	2149.8	2001.0	1059.4	240.8	185.4	188.1	198.9	217.8	232.7	234.1	230.0
35°	2373.1	2118.7	930.8	192.1	174.5	175.9	182.6	197.5	223.2	231.4	230.0
37.5°	2608.5	2252.7	771.2	173.2	166.4	165.1	169.1	181.3	204.3	224.6	225.9
40°	2858.8	2393.4	603.4	163.7	159.6	156.9	158.3	163.7	181.3	207.0	212.4
42.5°	3094.2	2520.6	453.2	154.2	152.9	150.2	150.2	151.5	161.0	178.6	181.3
45°	3348.6	2624.7	345.0	147.5	143.4	144.8	139.4	136.6	143.4	144.8	143.4
47.5°	3586.7	2728.9	276.0	139.4	135.3	135.3	128.5	123.1	123.1	110.9	109.6
50°	3809.9	2785.7	220.5	128.5	127.2	125.8	116.4	106.9	98.8	83.9	81.2
52.5°	3995.3	2783.0	170.5	115.0	119.1	115.0	100.1	86.6	74.4	60.9	58.2
55°	4050.7	2653.1	128.5	94.7	101.5	96.1	79.8	67.6	54.1	43.3	41.9
57.5°	4003.4	2455.6	97.4	73.1	78.5	73.1	60.9	50.1	37.9	29.8	27.1
60°	3845.1	2224.3	75.8	56.8	59.5	55.5	46.0	37.9	27.1	18.9	16.2
62.5°	3544.7	1934.7	58.2	44.6	43.3	43.3	35.2	28.4	18.9	10.8	9.5
65°	2908.8	1508.5	44.6	31.1	31.1	31.1	27.1	20.3	12.2	5.4	2.7
67.5°	1826.5	878.1	36.5	24.4	23.0	23.0	18.9	13.5	6.8	1.4	0.0
70°	687.3	322.0	28.4	18.9	17.6	17.6	13.5	8.1	4.1	0.0	0.0
72°	236.8	123.1	23.0	13.5	13.5	12.2	9.5	6.8	2.7	0.0	0.0
72.5°	194.8	98.8	21.6	13.5	12.2	12.2	9.5	6.8	2.7	0.0	0.0
75°	70.4	40.6	14.9	9.5	8.1	8.1	6.8	4.1	1.4	0.0	0.0
77.5°	35.2	25.7	12.2	8.1	6.8	4.1	4.1	2.7	1.4	0.0	0.0
80°	21.6	16.2	6.8	5.4	4.1	2.7	1.4	1.4	0.0	0.0	0.0
82.5°	14.9	9.5	4.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.5	4.1	2.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.7	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)