

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: P483110

Luminaire Tested: **IFLD-S-SA3B-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483110
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

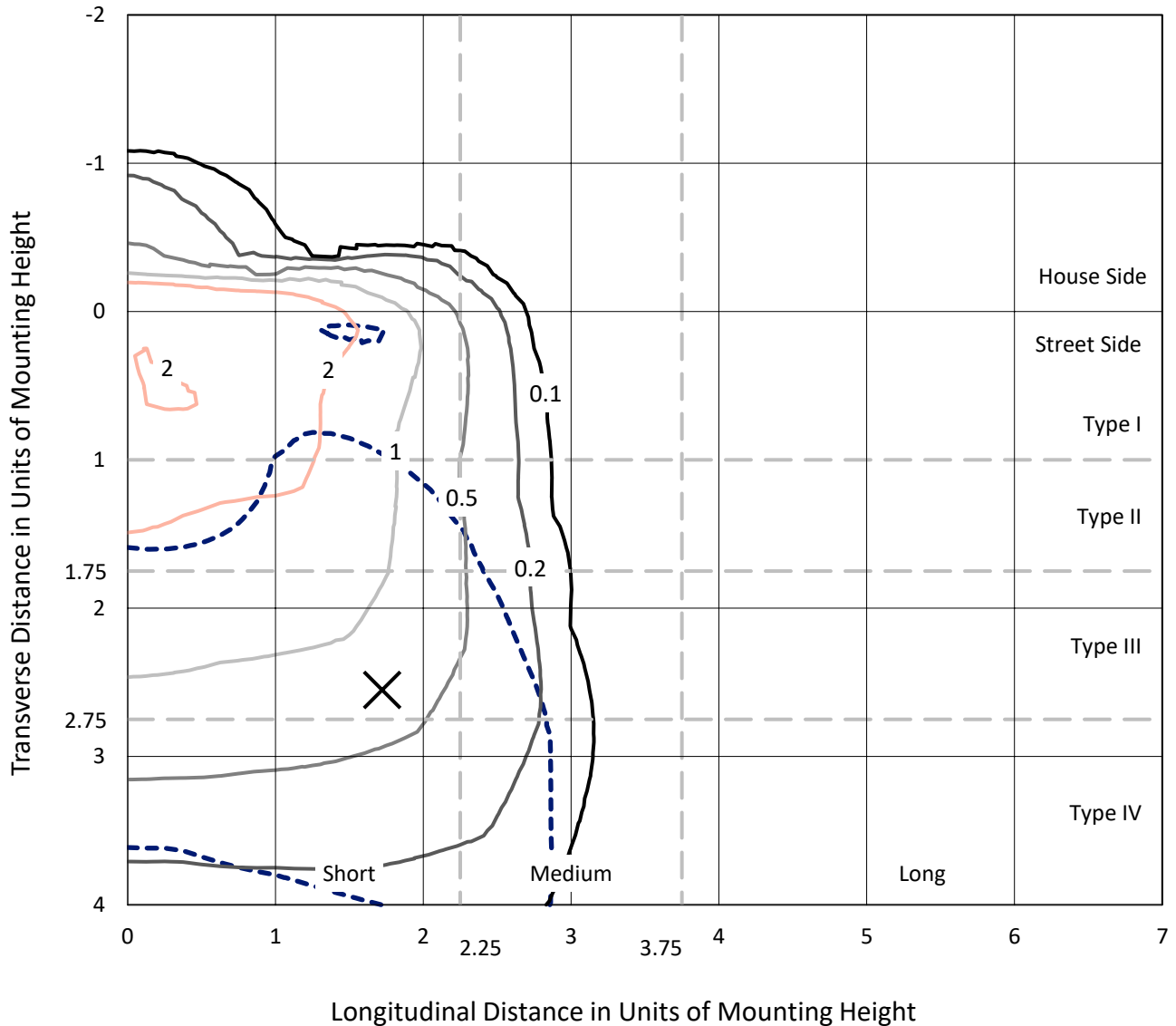
Lumens per Lamp: N/A
Luminaire Lumens: 10289.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

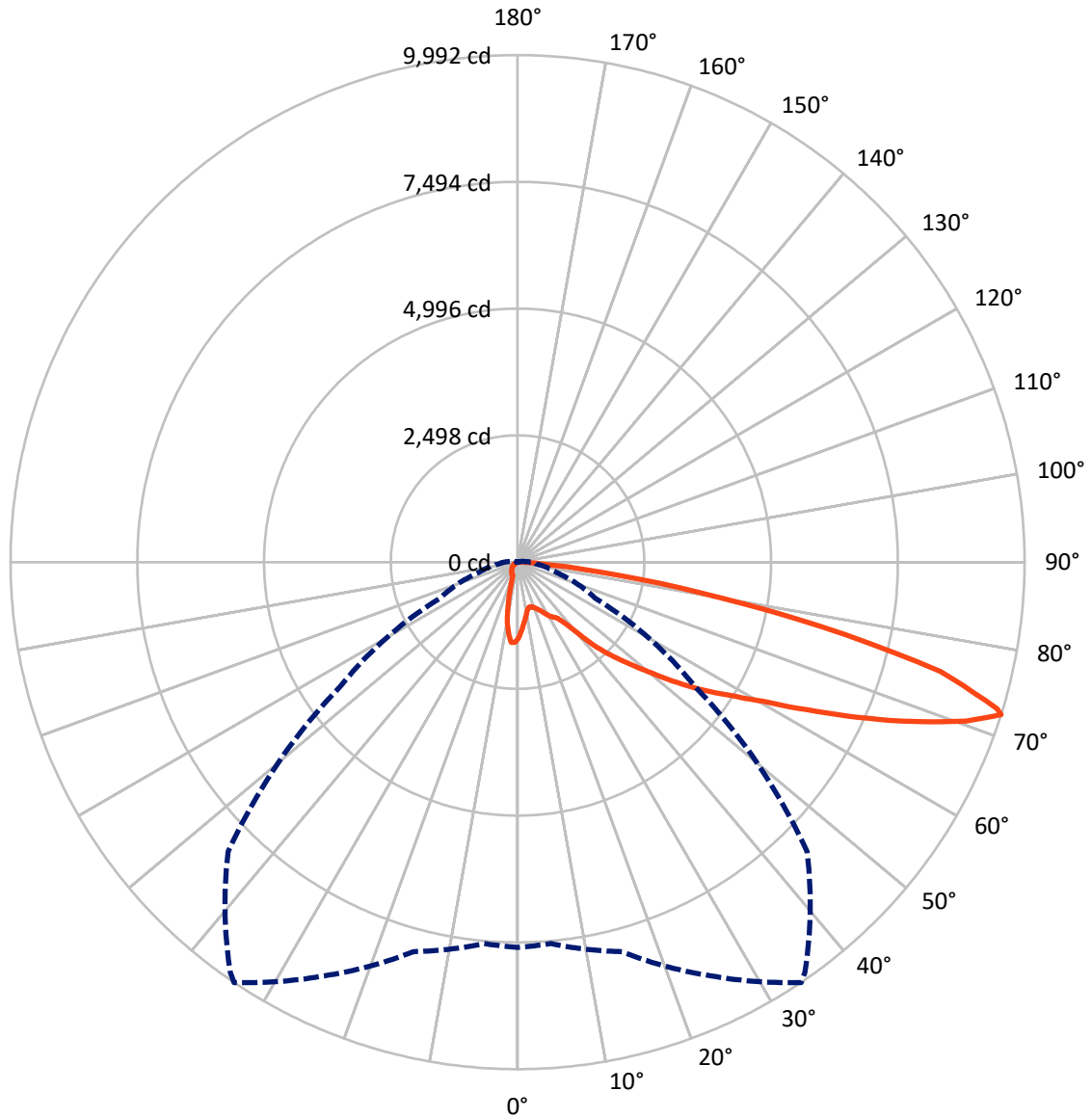
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	1053.4	0.0	1053.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	9236.4	0.0	9236.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	10289.8	0.0	10289.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.3
10°-20°	295.9	2.9
20°-30°	446.6	4.3
30°-40°	724.7	7.0
40°-50°	1362.8	13.2
50°-60°	2228.1	21.7
60°-70°	2962.0	28.8
70°-80°	1983.6	19.3
80°-90°	155.5	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°	10289.8	100.0
0°-180°	10289.8	100.0

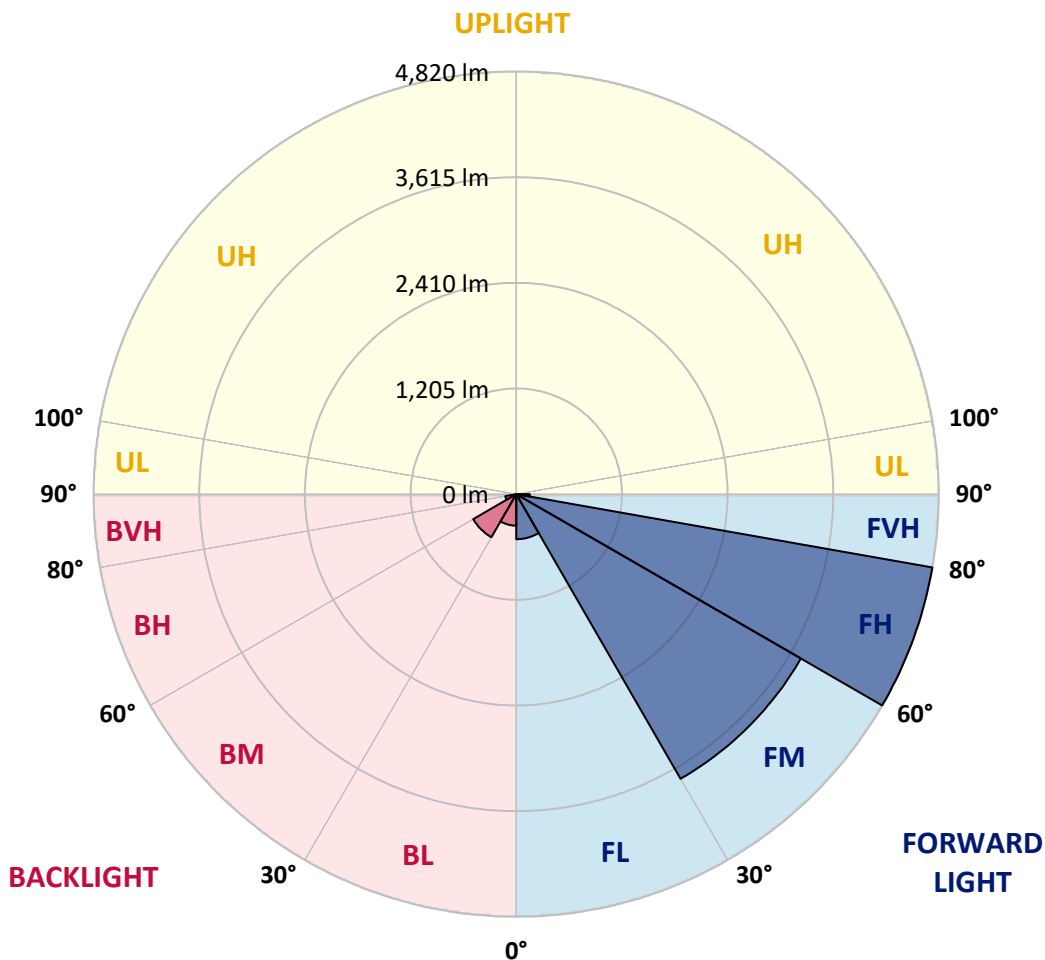


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.7	5.0			
FM (30°-60°)	3748.6	36.4			
FH (60°-80°)	4819.7	46.8			G2/5000
FVH (80°-90°)	154.5	1.5			G2/225
BL (0°-30°)	359.4	3.5	B1/500		
BM (30°-60°)	567.0	5.5	B1/1000		
BH (60°-80°)	126.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4
2.5°	1331.4	1328.4	1337.3	1352.2	1367.1	1361.1	1389.4	1419.1	1440.0	1468.2	1502.4
5°	1163.3	1170.7	1179.6	1209.4	1228.7	1233.2	1285.2	1323.9	1387.9	1453.3	1514.3
7.5°	1010.1	1019.0	1036.8	1069.6	1109.7	1120.1	1172.2	1249.5	1332.8	1419.1	1518.8
10°	898.5	907.4	926.7	947.6	1001.1	1001.1	1072.5	1179.6	1288.2	1389.4	1520.3
12.5°	874.7	879.1	877.7	894.0	928.2	935.7	1005.6	1123.1	1249.5	1379.0	1544.1
15°	902.9	905.9	891.0	882.1	911.9	919.3	984.8	1088.9	1224.3	1384.9	1582.8
17.5°	959.5	949.1	919.3	905.9	931.2	935.7	996.7	1087.4	1221.3	1401.3	1627.4
20°	992.2	1004.1	952.0	926.7	962.4	968.4	1033.9	1111.2	1236.2	1429.5	1689.9
22.5°	1050.2	1056.2	986.2	969.9	1004.1	1004.1	1078.5	1158.8	1271.9	1475.7	1764.2
25°	1132.0	1124.6	1042.8	1026.4	1059.1	1072.5	1146.9	1234.7	1326.9	1518.8	1832.7
27.5°	1196.0	1200.5	1133.5	1090.4	1145.4	1154.3	1234.7	1316.5	1368.6	1554.5	1916.0
30°	1291.2	1282.3	1210.9	1161.8	1230.2	1231.7	1309.0	1393.8	1448.9	1618.5	2040.9
32.5°	1404.3	1386.4	1304.6	1234.7	1289.7	1303.1	1381.9	1505.4	1573.8	1739.0	2234.3
35°	1643.7	1600.6	1466.7	1358.1	1362.6	1368.6	1490.5	1667.5	1746.4	1892.2	2493.1
37.5°	1993.3	1975.5	1823.7	1617.0	1538.1	1520.3	1657.1	1881.8	1979.9	2094.5	2829.3
40°	2339.9	2314.6	2173.3	2017.1	1874.3	1838.6	1907.0	2165.9	2255.1	2375.6	3174.4
42.5°	2725.2	2680.6	2514.0	2387.5	2298.3	2259.6	2232.8	2522.9	2624.0	2705.9	3512.1
45°	3114.9	3042.1	2801.1	2704.4	2656.8	2635.9	2633.0	2972.1	3033.1	3049.5	3887.0
47.5°	3457.1	3378.2	3159.6	3051.0	3015.3	3009.3	3175.9	3489.8	3442.2	3399.1	4305.0
50°	3720.4	3669.8	3512.1	3473.4	3446.7	3436.3	3826.0	4022.4	3802.2	3726.3	4672.4
52.5°	4128.0	4014.9	3836.4	3849.8	3943.5	3945.0	4485.0	4528.1	4101.2	3950.9	5019.0
55°	4453.7	4379.4	4233.6	4214.2	4461.2	4488.0	5075.5	4911.9	4267.8	4165.2	5146.9
57.5°	4837.5	4803.3	4697.7	4700.7	4959.5	5016.0	5600.6	5236.2	4406.1	4303.5	5166.3
60°	5392.4	5294.2	5239.2	5264.5	5569.4	5624.4	6109.4	5469.7	4473.1	4394.2	5118.7
62.5°	6005.3	5890.7	5831.2	5960.6	6405.4	6414.3	6496.2	5676.5	4431.4	4418.0	4812.2
65°	6743.1	6630.0	6582.4	6842.8	7370.8	7338.1	7039.1	5764.3	4299.0	4178.5	4007.5
67.5°	7477.9	7409.5	7311.3	7726.4	8383.9	8383.9	7602.9	5731.6	3952.4	3354.4	2621.1
70°	7826.0	7873.6	8029.8	8681.4	9379.0	9307.6	8159.2	5355.2	2942.4	1801.4	1030.9
72°	7594.0	7544.9	7948.0	8993.8	9991.9	9874.4	8065.5	4257.4	1700.3	789.9	358.5
72.5°	7195.3	7241.4	7796.3	8950.6	9877.4	9974.1	7836.4	3927.1	1398.3	629.2	270.7
75°	4412.1	4490.9	5819.3	7599.9	8607.0	8498.4	6061.8	1871.3	537.0	267.8	96.7
77.5°	1611.0	1676.5	2823.4	4782.5	6121.3	6052.9	3507.7	664.9	291.6	199.3	49.1
80°	419.5	453.7	959.5	2206.0	3599.9	3604.3	1468.2	266.3	197.8	163.6	29.8
82.5°	83.3	92.2	294.5	858.3	1682.4	1660.1	464.1	142.8	148.8	133.9	20.8
85°	10.4	13.4	62.5	291.6	544.4	487.9	114.5	71.4	110.1	104.1	13.4
87.5°	1.5	1.5	14.9	66.9	114.5	111.6	23.8	22.3	49.1	64.0	7.4
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°	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4	1505.4
2.5°	1521.8	1527.7	1548.5	1566.4	1587.2	1593.2	1584.2	1599.1	1578.3	1590.2	1593.2
5°	1524.7	1559.0	1597.6	1622.9	1617.0	1602.1	1590.2	1550.0	1521.8	1511.4	1533.7
7.5°	1545.6	1584.2	1625.9	1625.9	1593.2	1515.8	1441.4	1370.0	1310.5	1280.8	1306.1
10°	1572.3	1612.5	1655.6	1599.1	1477.1	1335.8	1230.2	1096.3	1005.6	958.0	962.4
12.5°	1608.0	1664.6	1679.5	1548.5	1346.2	1136.5	944.6	758.7	672.4	603.9	605.4
15°	1654.2	1709.2	1664.6	1438.5	1179.6	870.2	639.6	462.6	394.2	358.5	358.5
17.5°	1715.2	1756.8	1660.1	1337.3	955.0	595.0	392.7	312.4	297.5	291.6	291.6
20°	1786.6	1817.8	1617.0	1179.6	709.6	382.3	288.6	279.7	281.1	278.2	278.2
22.5°	1866.9	1877.3	1567.9	996.7	480.5	282.6	269.2	270.7	272.2	269.2	270.7
25°	1951.7	1923.4	1496.5	782.5	319.8	257.3	260.3	263.3	264.8	266.3	266.3
27.5°	2046.9	1990.3	1396.8	572.7	249.9	242.5	251.4	260.3	261.8	261.8	260.3
30°	2186.7	2093.0	1300.1	388.3	220.2	226.1	241.0	251.4	258.8	258.8	257.3
32.5°	2363.7	2200.1	1164.8	264.8	203.8	206.8	218.7	239.5	255.9	257.3	252.9
35°	2609.2	2329.5	1023.4	211.2	191.9	193.4	200.8	217.2	245.4	254.4	252.9
37.5°	2868.0	2476.8	847.9	190.4	183.0	181.5	185.9	199.3	224.6	246.9	248.4
40°	3143.2	2631.5	663.4	180.0	175.5	172.6	174.0	180.0	199.3	227.6	233.5
42.5°	3402.0	2771.3	498.3	169.6	168.1	165.1	165.1	166.6	177.0	196.4	199.3
45°	3681.7	2885.9	379.3	162.1	157.7	159.2	153.2	150.2	157.7	159.2	157.7
47.5°	3943.5	3000.4	303.5	153.2	148.8	148.8	141.3	135.4	135.4	122.0	120.5
50°	4189.0	3062.9	242.5	141.3	139.8	138.3	127.9	117.5	108.6	92.2	89.3
52.5°	4392.8	3059.9	187.4	126.4	130.9	126.4	110.1	95.2	81.8	66.9	64.0
55°	4453.7	2917.1	141.3	104.1	111.6	105.6	87.8	74.4	59.5	47.6	46.1
57.5°	4401.7	2699.9	107.1	80.3	86.3	80.3	66.9	55.0	41.7	32.7	29.8
60°	4227.6	2445.5	83.3	62.5	65.5	61.0	50.6	41.7	29.8	20.8	17.9
62.5°	3897.4	2127.2	64.0	49.1	47.6	47.6	38.7	31.2	20.8	11.9	10.4
65°	3198.2	1658.6	49.1	34.2	34.2	34.2	29.8	22.3	13.4	6.0	3.0
67.5°	2008.2	965.4	40.2	26.8	25.3	25.3	20.8	14.9	7.4	1.5	0.0
70°	755.7	354.0	31.2	20.8	19.3	19.3	14.9	8.9	4.5	0.0	0.0
72°	260.3	135.4	25.3	14.9	14.9	13.4	10.4	7.4	3.0	0.0	0.0
72.5°	214.2	108.6	23.8	14.9	13.4	13.4	10.4	7.4	3.0	0.0	0.0
75°	77.4	44.6	16.4	10.4	8.9	8.9	7.4	4.5	1.5	0.0	0.0
77.5°	38.7	28.3	13.4	8.9	7.4	4.5	4.5	3.0	1.5	0.0	0.0
80°	23.8	17.9	7.4	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	16.4	10.4	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	3.0	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)