

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: P483188

Luminaire Tested: **IFLD-S-SA3B-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

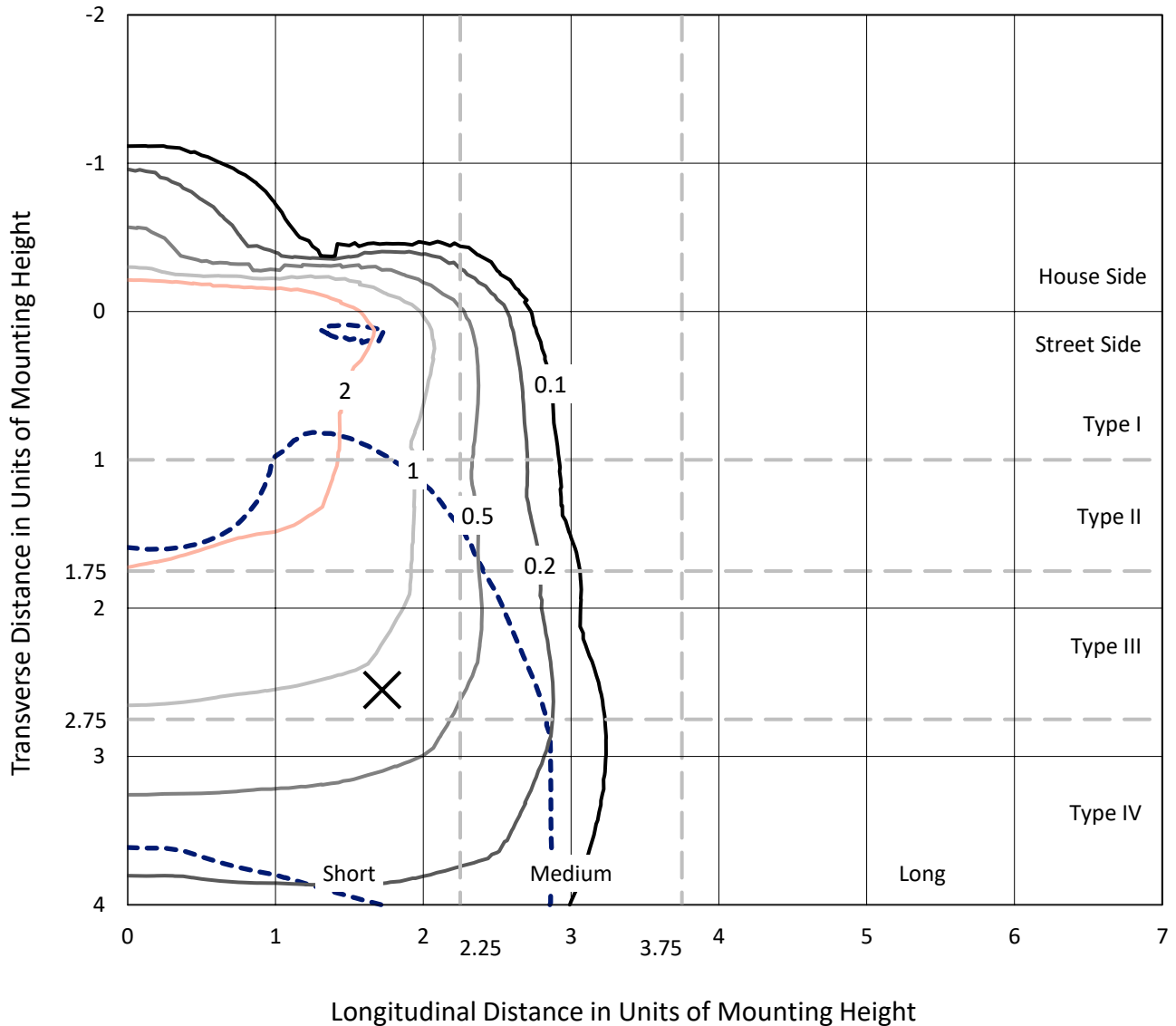
Lumens per Lamp: N/A
Luminaire Lumens: 12135.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

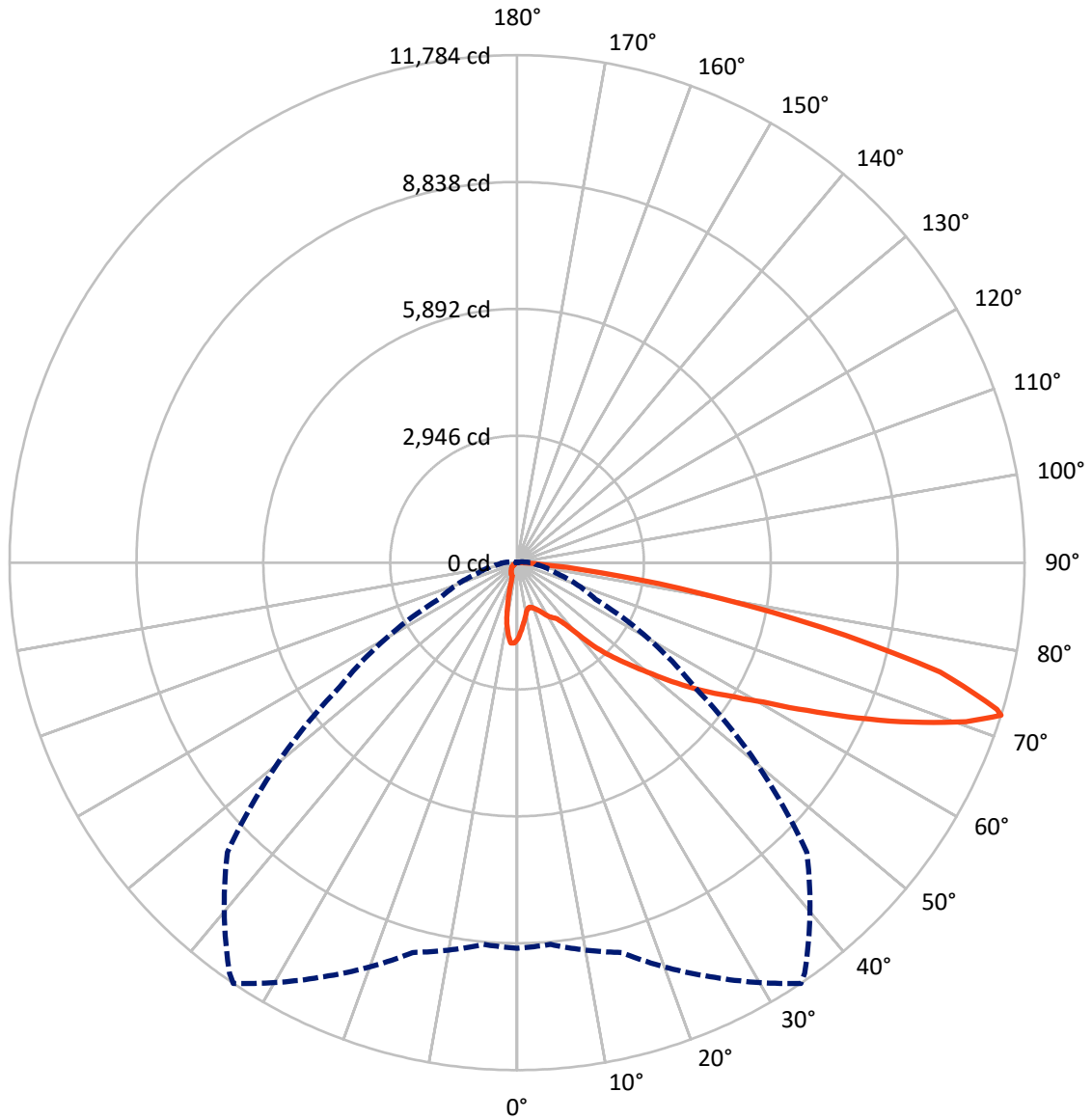
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	1242.4	0.0	1242.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10893.0	0.0	10893.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	12135.4	0.0	12135.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.3
10°-20°	348.9	2.9
20°-30°	526.7	4.3
30°-40°	854.7	7.0
40°-50°	1607.2	13.2
50°-60°	2627.8	21.7
60°-70°	3493.3	28.8
70°-80°	2339.4	19.3
80°-90°	183.3	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°	12135.4	100.0
0°-180°	12135.4	100.0



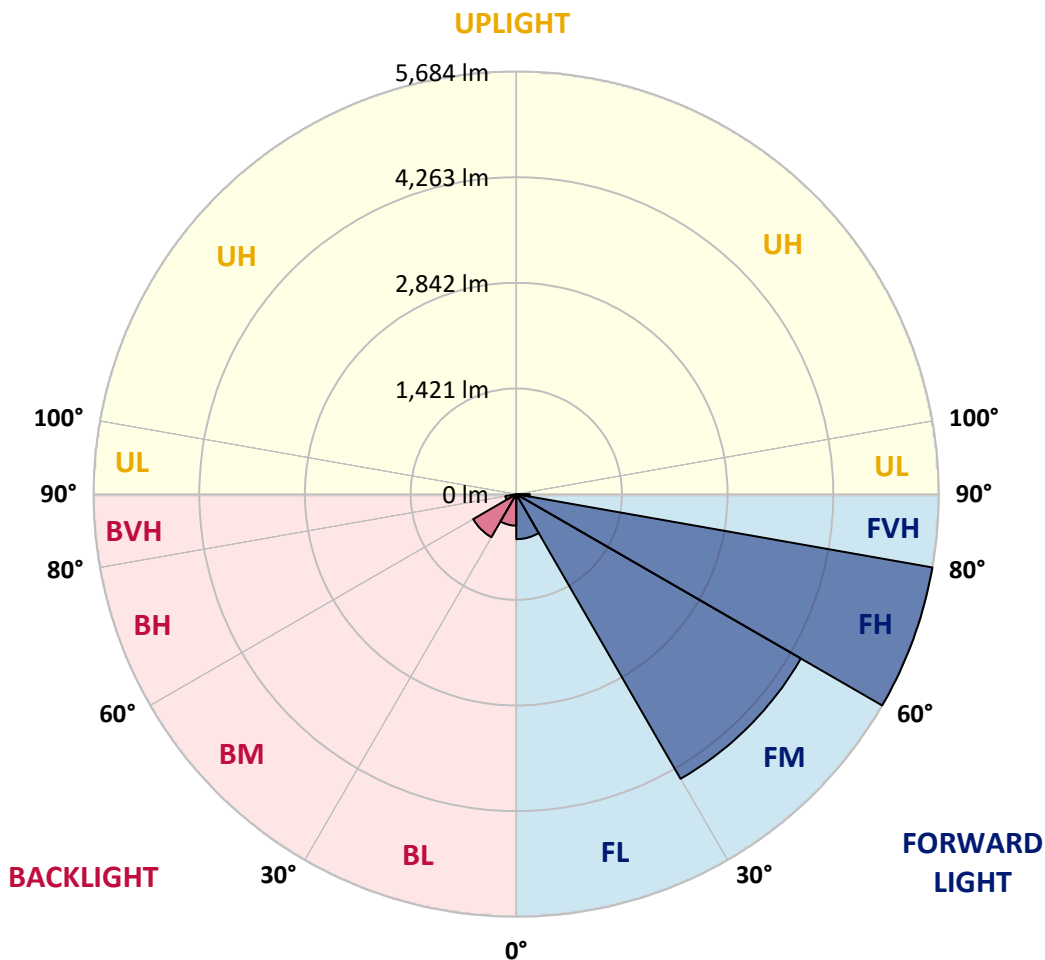
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.8	5.0			
FM (30°-60°)	4420.9	36.4			
FH (60°-80°)	5684.1	46.8			G3/7500
FVH (80°-90°)	182.2	1.5			G2/225
BL (0°-30°)	423.9	3.5	B1/500		
BM (30°-60°)	668.8	5.5	B1/1000		
BH (60°-80°)	148.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4
2.5°	1570.2	1566.6	1577.2	1594.7	1612.3	1605.2	1638.6	1673.7	1698.2	1731.6	1771.9
5°	1371.9	1380.7	1391.2	1426.3	1449.1	1454.4	1515.8	1561.4	1636.8	1714.0	1785.9
7.5°	1191.2	1201.7	1222.8	1261.4	1308.8	1321.0	1382.4	1473.7	1571.9	1673.7	1791.2
10°	1059.6	1070.2	1093.0	1117.5	1180.7	1180.7	1264.9	1391.2	1519.3	1638.6	1793.0
12.5°	1031.6	1036.8	1035.1	1054.4	1094.7	1103.5	1186.0	1324.5	1473.7	1626.3	1821.0
15°	1064.9	1068.4	1050.9	1040.3	1075.4	1084.2	1161.4	1284.2	1443.8	1633.3	1866.6
17.5°	1131.6	1119.3	1084.2	1068.4	1098.2	1103.5	1175.4	1282.4	1440.3	1652.6	1919.3
20°	1170.2	1184.2	1122.8	1093.0	1135.1	1142.1	1219.3	1310.5	1457.9	1685.9	1993.0
22.5°	1238.6	1245.6	1163.1	1143.8	1184.2	1184.2	1271.9	1366.7	1500.0	1740.3	2080.7
25°	1335.1	1326.3	1229.8	1210.5	1249.1	1264.9	1352.6	1456.1	1564.9	1791.2	2161.4
27.5°	1410.5	1415.8	1336.8	1286.0	1350.9	1361.4	1456.1	1552.6	1614.0	1833.3	2259.6
30°	1522.8	1512.3	1428.1	1370.2	1450.9	1452.6	1543.8	1643.8	1708.8	1908.7	2407.0
32.5°	1656.1	1635.1	1538.6	1456.1	1521.0	1536.8	1629.8	1775.4	1856.1	2050.9	2635.1
35°	1938.6	1887.7	1729.8	1601.7	1607.0	1614.0	1757.9	1966.6	2059.6	2231.6	2940.3
37.5°	2350.9	2329.8	2150.9	1907.0	1814.0	1793.0	1954.4	2219.3	2335.1	2470.1	3336.8
40°	2759.6	2729.8	2563.1	2378.9	2210.5	2168.4	2249.1	2554.4	2659.6	2801.7	3743.8
42.5°	3214.0	3161.4	2964.9	2815.8	2710.5	2664.9	2633.3	2975.4	3094.7	3191.2	4142.1
45°	3673.6	3587.7	3303.5	3189.4	3133.3	3108.7	3105.2	3505.2	3577.2	3596.4	4584.2
47.5°	4077.1	3984.2	3726.3	3598.2	3556.1	3549.1	3745.6	4115.7	4059.6	4008.7	5077.1
50°	4387.7	4328.0	4142.1	4096.4	4064.9	4052.6	4512.2	4743.8	4484.2	4394.7	5510.5
52.5°	4868.4	4735.0	4524.5	4540.3	4650.8	4652.6	5289.4	5340.3	4836.8	4659.6	5919.2
55°	5252.6	5164.9	4992.9	4970.1	5261.3	5292.9	5985.9	5792.9	5033.3	4912.2	6070.1
57.5°	5705.2	5664.8	5540.3	5543.8	5849.1	5915.7	6605.2	6175.4	5196.4	5075.4	6092.9
60°	6359.6	6243.8	6178.9	6208.7	6568.3	6633.3	7205.2	6450.8	5275.4	5182.4	6036.8
62.5°	7082.4	6947.3	6877.1	7029.7	7554.3	7564.8	7661.3	6694.7	5226.3	5210.5	5675.4
65°	7952.5	7819.2	7763.1	8070.1	8692.9	8654.3	8301.7	6798.2	5070.1	4928.0	4726.3
67.5°	8819.2	8738.5	8622.7	9112.2	9887.6	9887.6	8966.6	6759.6	4661.3	3956.1	3091.2
70°	9229.7	9285.9	9470.1	10238.5	11061.3	10977.1	9622.7	6315.7	3470.1	2124.5	1215.8
72°	8956.0	8898.1	9373.6	10606.9	11784.1	11645.5	9512.2	5021.0	2005.2	931.6	422.8
72.5°	8485.9	8540.3	9194.6	10556.0	11649.0	11763.0	9242.0	4631.5	1649.1	742.1	319.3
75°	5203.4	5296.4	6863.1	8963.1	10150.8	10022.7	7149.0	2207.0	633.3	315.8	114.0
77.5°	1900.0	1977.2	3329.8	5640.3	7219.2	7138.5	4136.8	784.2	343.9	235.1	57.9
80°	494.7	535.1	1131.6	2601.7	4245.6	4250.8	1731.6	314.0	233.3	193.0	35.1
82.5°	98.2	108.8	347.4	1012.3	1984.2	1957.9	547.4	168.4	175.4	157.9	24.6
85°	12.3	15.8	73.7	343.9	642.1	575.4	135.1	84.2	129.8	122.8	15.8
87.5°	1.8	1.8	17.5	78.9	135.1	131.6	28.1	26.3	57.9	75.4	8.8
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°	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4	1775.4
2.5°	1794.7	1801.7	1826.3	1847.3	1871.9	1878.9	1868.4	1885.9	1861.4	1875.4	1878.9
5°	1798.2	1838.6	1884.2	1914.0	1907.0	1889.5	1875.4	1828.0	1794.7	1782.4	1808.8
7.5°	1822.8	1868.4	1917.5	1917.5	1878.9	1787.7	1700.0	1615.8	1545.6	1510.5	1540.3
10°	1854.4	1901.7	1952.6	1885.9	1742.1	1575.4	1450.9	1293.0	1186.0	1129.8	1135.1
12.5°	1896.5	1963.1	1980.7	1826.3	1587.7	1340.3	1114.0	894.7	793.0	712.3	714.0
15°	1950.9	2015.8	1963.1	1696.5	1391.2	1026.3	754.4	545.6	464.9	422.8	422.8
17.5°	2022.8	2071.9	1957.9	1577.2	1126.3	701.7	463.2	368.4	350.9	343.9	343.9
20°	2107.0	2143.8	1907.0	1391.2	836.8	450.9	340.3	329.8	331.6	328.1	328.1
22.5°	2201.7	2214.0	1849.1	1175.4	566.7	333.3	317.5	319.3	321.0	317.5	319.3
25°	2301.7	2268.4	1764.9	922.8	377.2	303.5	307.0	310.5	312.3	314.0	314.0
27.5°	2414.0	2347.3	1647.3	675.4	294.7	286.0	296.5	307.0	308.8	308.8	307.0
30°	2578.9	2468.4	1533.3	457.9	259.6	266.7	284.2	296.5	305.3	305.3	303.5
32.5°	2787.7	2594.7	1373.7	312.3	240.3	243.9	257.9	282.5	301.8	303.5	298.2
35°	3077.2	2747.3	1207.0	249.1	226.3	228.1	236.8	256.1	289.5	300.0	298.2
37.5°	3382.4	2921.0	1000.0	224.6	215.8	214.0	219.3	235.1	264.9	291.2	293.0
40°	3707.0	3103.5	782.4	212.3	207.0	203.5	205.3	212.3	235.1	268.4	275.4
42.5°	4012.2	3268.4	587.7	200.0	198.2	194.7	194.7	196.5	208.8	231.6	235.1
45°	4342.1	3403.5	447.4	191.2	186.0	187.7	180.7	177.2	186.0	187.7	186.0
47.5°	4650.8	3538.6	357.9	180.7	175.4	175.4	166.7	159.6	159.6	143.9	142.1
50°	4940.3	3612.2	286.0	166.7	164.9	163.2	150.9	138.6	128.1	108.8	105.3
52.5°	5180.6	3608.7	221.1	149.1	154.4	149.1	129.8	112.3	96.5	78.9	75.4
55°	5252.6	3440.3	166.7	122.8	131.6	124.6	103.5	87.7	70.2	56.1	54.4
57.5°	5191.2	3184.2	126.3	94.7	101.8	94.7	78.9	64.9	49.1	38.6	35.1
60°	4985.9	2884.2	98.2	73.7	77.2	71.9	59.6	49.1	35.1	24.6	21.1
62.5°	4596.4	2508.7	75.4	57.9	56.1	56.1	45.6	36.8	24.6	14.0	12.3
65°	3771.9	1956.1	57.9	40.4	40.4	40.4	35.1	26.3	15.8	7.0	3.5
67.5°	2368.4	1138.6	47.4	31.6	29.8	29.8	24.6	17.5	8.8	1.8	0.0
70°	891.2	417.5	36.8	24.6	22.8	22.8	17.5	10.5	5.3	0.0	0.0
72°	307.0	159.6	29.8	17.5	17.5	15.8	12.3	8.8	3.5	0.0	0.0
72.5°	252.6	128.1	28.1	17.5	15.8	15.8	12.3	8.8	3.5	0.0	0.0
75°	91.2	52.6	19.3	12.3	10.5	10.5	8.8	5.3	1.8	0.0	0.0
77.5°	45.6	33.3	15.8	10.5	8.8	5.3	5.3	3.5	1.8	0.0	0.0
80°	28.1	21.1	8.8	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	19.3	12.3	5.3	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.3	5.3	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.5	1.8	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)