

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: P483540

Luminaire Tested: **IFLD-S-SA3C-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483540
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

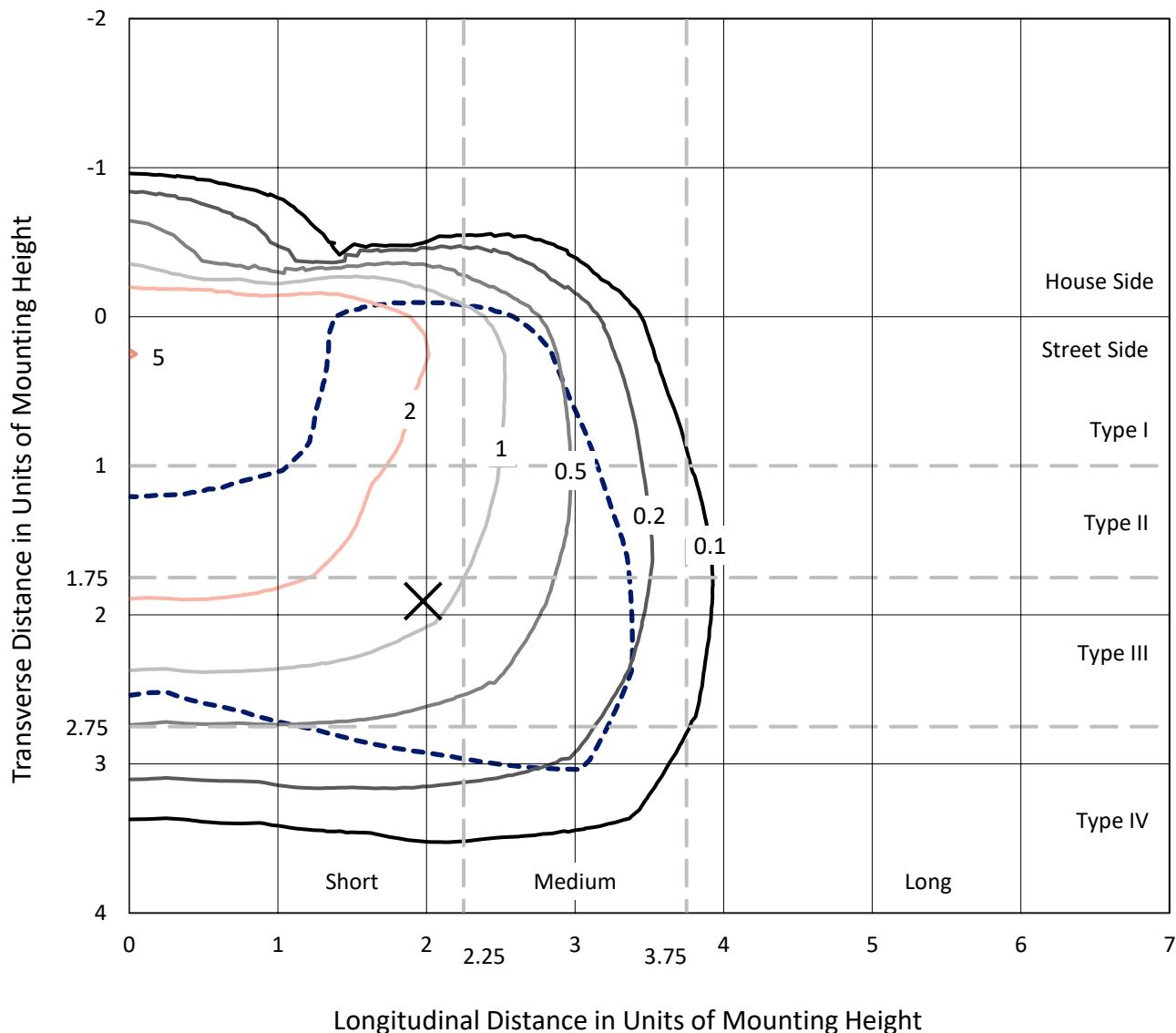
Lumens per Lamp: N/A
Luminaire Lumens: 14231.6 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

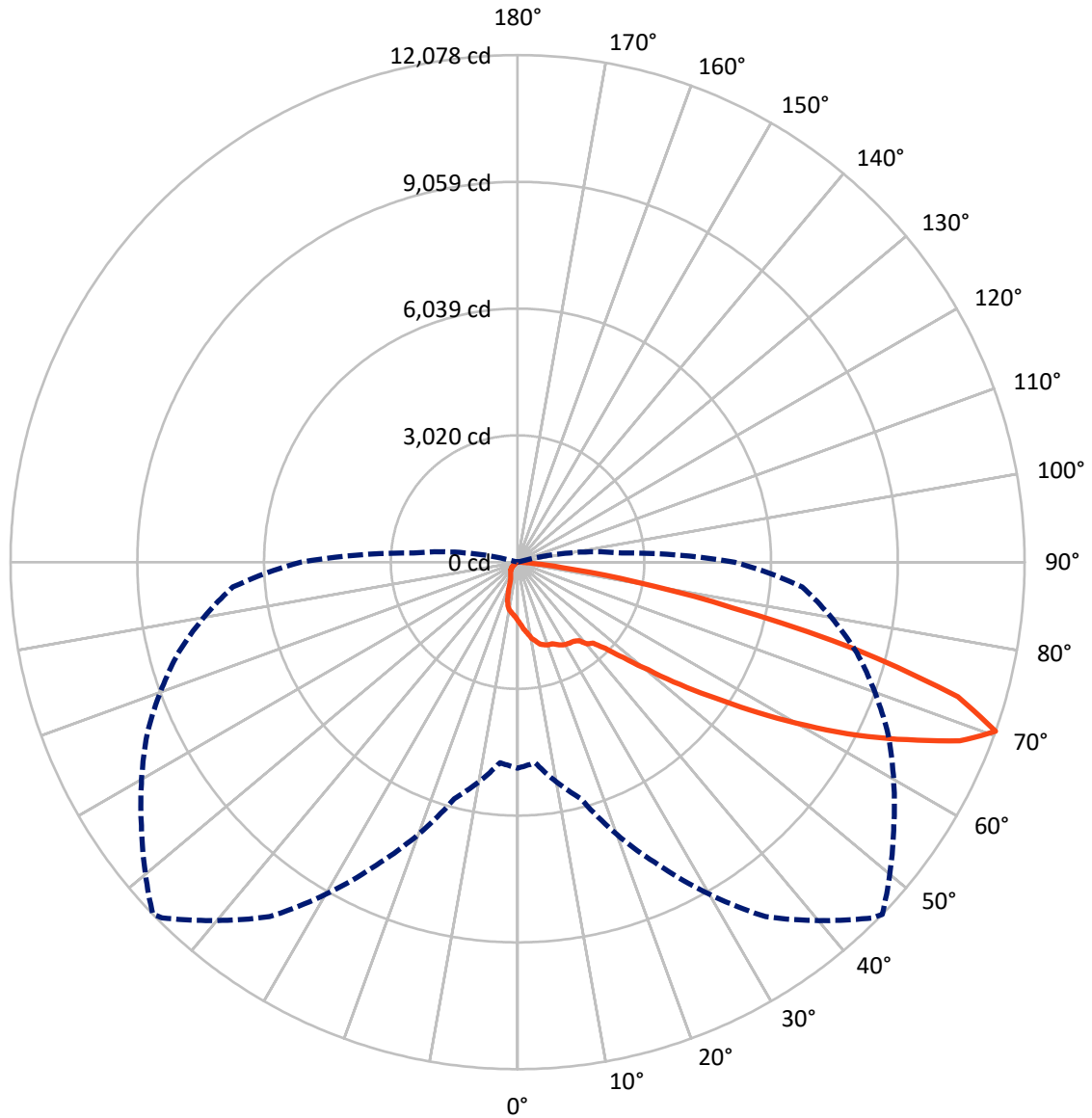
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.1	0.0	1416.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	12815.5	0.0	12815.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	14231.6	0.0	14231.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.0
10°-20°	420.7	3.0
20°-30°	673.9	4.7
30°-40°	961.8	6.8
40°-50°	1660.9	11.7
50°-60°	3179.8	22.3
60°-70°	4708.8	33.1
70°-80°	2332.2	16.4
80°-90°	154.1	1.1
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°	14231.6	100.0
0°-180°	14231.6	100.0



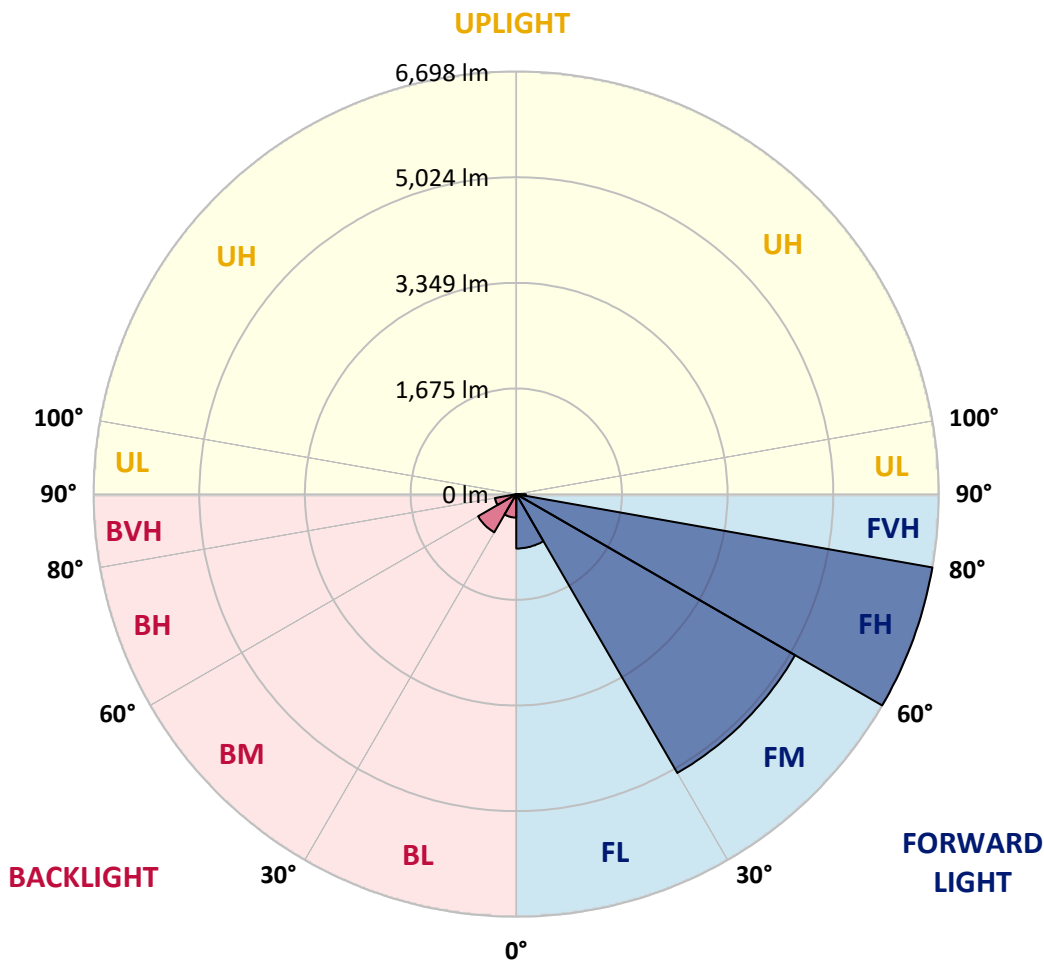
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.8	6.1			
FM (30°-60°)	5103.4	35.9			
FH (60°-80°)	6698.1	47.1			G3/7500
FVH (80°-90°)	152.1	1.1			G2/225
BL (0°-30°)	372.0	2.6	B1/500		
BM (30°-60°)	699.1	4.9	B1/1000		
BH (60°-80°)	343.0	2.4	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1
2.5°	1558.9	1548.7	1532.3	1526.2	1509.8	1501.6	1489.3	1483.1	1460.6	1438.1	1423.7
5°	1749.4	1724.9	1733.1	1708.5	1655.2	1612.2	1610.1	1563.0	1511.8	1470.8	1415.5
7.5°	1942.0	1921.5	1890.8	1856.0	1796.6	1733.1	1714.6	1669.6	1597.9	1526.2	1452.4
10°	2087.5	2073.1	2046.5	1997.3	1915.4	1843.7	1845.7	1769.9	1694.1	1612.2	1511.8
12.5°	2177.6	2183.7	2144.8	2095.7	2024.0	1933.8	1931.8	1880.6	1794.5	1708.5	1589.7
15°	2267.7	2290.3	2230.9	2173.5	2081.3	2015.8	2028.0	1966.6	1882.6	1784.3	1653.2
17.5°	2282.1	2288.2	2275.9	2191.9	2124.3	2069.0	2071.1	2030.1	1966.6	1860.1	1747.4
20°	2257.5	2253.4	2239.0	2177.6	2132.5	2099.7	2101.8	2091.6	2056.7	1970.7	1817.0
22.5°	2185.8	2185.8	2167.3	2126.4	2105.9	2136.6	2112.0	2151.0	2114.1	2062.9	1935.9
25°	2128.4	2151.0	2140.7	2114.1	2122.3	2163.3	2175.5	2212.4	2206.3	2142.8	2017.8
27.5°	2189.9	2163.3	2169.4	2138.7	2169.4	2230.9	2237.0	2263.6	2261.6	2210.4	2091.6
30°	2230.9	2255.4	2208.3	2140.7	2173.5	2278.0	2273.9	2308.7	2325.1	2263.6	2161.2
32.5°	2362.0	2341.5	2302.6	2212.4	2216.5	2275.9	2294.4	2339.4	2349.7	2312.8	2228.8
35°	2630.3	2599.6	2429.6	2294.4	2273.9	2302.6	2314.8	2402.9	2421.4	2380.4	2300.5
37.5°	3044.1	2974.5	2769.6	2470.5	2378.3	2372.2	2372.2	2489.0	2558.6	2464.4	2407.0
40°	3636.1	3537.8	3316.6	2796.2	2515.6	2540.2	2564.8	2628.3	2620.1	2558.6	2546.3
42.5°	4390.0	4314.2	4074.5	3343.2	2777.8	2654.9	2634.4	2720.5	2849.5	2824.9	2816.7
45°	5018.9	5023.0	4869.4	4093.0	3230.5	2919.2	2933.5	2999.1	3216.2	3197.8	3195.7
47.5°	5477.8	5420.4	5397.9	4816.1	3890.2	3421.1	3400.6	3445.6	3728.3	3845.1	3898.4
50°	5895.7	5856.8	5803.5	5518.8	4682.9	4050.0	4029.5	4033.6	4465.8	4629.7	4760.8
52.5°	6414.0	6463.1	6287.0	6112.8	5709.3	4867.3	4844.8	4764.9	5301.6	5526.9	5682.6
55°	7053.1	6960.9	6762.2	6852.3	6690.5	5750.2	5709.3	5615.0	6254.2	6348.4	6512.3
57.5°	7194.5	7124.8	7329.7	7649.2	7804.9	6786.8	6770.4	6600.4	7055.2	6969.1	7432.1
60°	7546.8	7565.2	7850.0	8485.0	8755.4	7983.1	7903.2	7604.2	7831.5	7847.9	8341.6
62.5°	7909.4	7866.4	8503.5	9113.9	9529.8	9116.0	9089.3	8495.3	8753.4	8544.4	9197.9
65°	7643.1	7708.6	8620.2	9642.5	10533.6	10224.2	10201.7	9353.6	9495.0	9234.8	9546.2
67.5°	6696.7	6563.5	7839.7	9400.7	11049.8	11385.8	11361.2	10289.8	9912.9	9230.7	8823.0
70°	4908.3	4793.6	5834.2	7960.6	10310.3	11979.8	12078.2	10941.2	9742.8	8370.3	6807.3
72.5°	2405.0	2407.0	3269.5	5397.9	8157.3	10918.7	10967.9	10031.7	8370.3	6170.2	3855.3
75°	710.8	719.0	1210.7	2646.7	5272.9	8292.5	8347.8	7614.4	5801.4	3187.5	1315.2
77.5°	260.2	260.2	401.5	993.5	2630.3	5234.0	5229.9	4674.8	2937.6	1079.6	307.3
80°	135.2	141.3	209.0	405.6	1139.0	2726.6	2829.0	2288.2	1116.5	454.8	90.1
82.5°	55.3	61.5	114.7	209.0	547.0	956.7	1046.8	897.3	485.5	317.5	41.0
85°	16.4	18.4	55.3	116.8	215.1	239.7	266.3	301.1	305.2	245.8	18.4
87.5°	2.0	2.0	22.5	38.9	47.1	51.2	59.4	59.4	155.7	172.1	10.2
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°	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1
2.5°	1407.3	1397.1	1380.7	1343.8	1335.6	1309.0	1307.0	1282.4	1290.6	1274.2	1268.0
5°	1397.1	1374.6	1329.5	1300.8	1272.1	1253.7	1241.4	1231.2	1229.1	1220.9	1216.8
7.5°	1415.5	1384.8	1315.2	1270.1	1220.9	1204.5	1177.9	1175.9	1161.5	1147.2	1147.2
10°	1477.0	1421.7	1345.9	1270.1	1206.6	1153.3	1091.9	1046.8	1030.4	993.5	997.6
12.5°	1526.2	1477.0	1366.4	1288.5	1192.2	1071.4	936.2	831.7	782.5	735.4	753.9
15°	1595.8	1524.1	1405.3	1292.6	1136.9	928.0	706.7	590.0	544.9	534.7	532.6
17.5°	1671.6	1595.8	1454.5	1282.4	1024.3	717.0	520.3	452.7	460.9	473.2	471.2
20°	1755.6	1663.4	1491.3	1247.6	846.0	520.3	426.1	424.0	436.3	454.8	458.9
22.5°	1843.7	1763.8	1536.4	1143.1	630.9	417.9	409.7	409.7	417.9	440.4	436.3
25°	1942.0	1835.5	1558.9	981.2	452.7	385.1	389.2	397.4	401.5	419.9	422.0
27.5°	2017.8	1915.4	1565.1	786.6	368.7	356.4	366.7	376.9	383.1	397.4	403.6
30°	2087.5	2015.8	1532.3	585.9	338.0	331.9	336.0	350.3	362.6	374.9	374.9
32.5°	2175.5	2073.1	1456.5	415.9	319.6	309.3	307.3	313.4	327.8	342.1	342.1
35°	2265.7	2169.4	1335.6	333.9	303.2	288.8	280.6	274.5	280.6	290.9	299.1
37.5°	2396.8	2314.8	1184.1	307.3	290.9	270.4	254.0	239.7	229.4	227.4	233.5
40°	2583.2	2478.7	989.4	288.8	276.6	252.0	227.4	202.8	180.3	165.9	168.0
42.5°	2865.9	2720.5	778.4	278.6	266.3	231.5	196.7	161.8	133.2	118.8	118.8
45°	3269.5	3040.0	571.5	268.4	254.0	206.9	161.8	120.9	92.2	84.0	86.0
47.5°	3877.9	3425.1	409.7	252.0	237.6	180.3	127.0	86.0	67.6	63.5	65.6
50°	4672.7	3882.0	319.6	233.5	217.1	151.6	94.2	63.5	53.3	51.2	53.3
52.5°	5506.5	4342.9	280.6	217.1	186.4	120.9	69.7	51.2	45.1	43.0	45.1
55°	6219.3	4639.9	243.8	192.6	149.5	90.1	55.3	45.1	38.9	32.8	32.8
57.5°	6940.4	4789.5	192.6	159.8	110.6	67.6	47.1	38.9	32.8	26.6	24.6
60°	7526.3	4896.0	137.3	118.8	77.8	53.3	41.0	34.8	26.6	20.5	18.4
62.5°	7911.4	4590.8	100.4	90.1	57.4	45.1	34.8	28.7	20.5	14.3	14.3
65°	7720.9	4168.8	77.8	63.5	43.0	34.8	28.7	20.5	14.3	8.2	6.1
67.5°	6928.1	3396.5	63.5	47.1	32.8	26.6	22.5	16.4	8.2	2.0	2.0
70°	5168.5	2489.0	51.2	34.8	26.6	20.5	16.4	10.2	4.1	2.0	0.0
72.5°	2827.0	1362.3	41.0	28.7	20.5	16.4	12.3	8.2	4.1	0.0	0.0
75°	934.1	362.6	30.7	20.5	12.3	10.2	8.2	6.1	2.0	0.0	0.0
77.5°	225.3	94.2	24.6	18.4	10.2	6.1	4.1	2.0	2.0	0.0	0.0
80°	69.7	38.9	18.4	12.3	8.2	6.1	2.0	0.0	0.0	0.0	0.0
82.5°	28.7	18.4	8.2	8.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	10.2	6.1	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	4.1	2.0	2.0	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)