

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: P483228

Luminaire Tested: **IFLD-S-SA3C-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483228
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

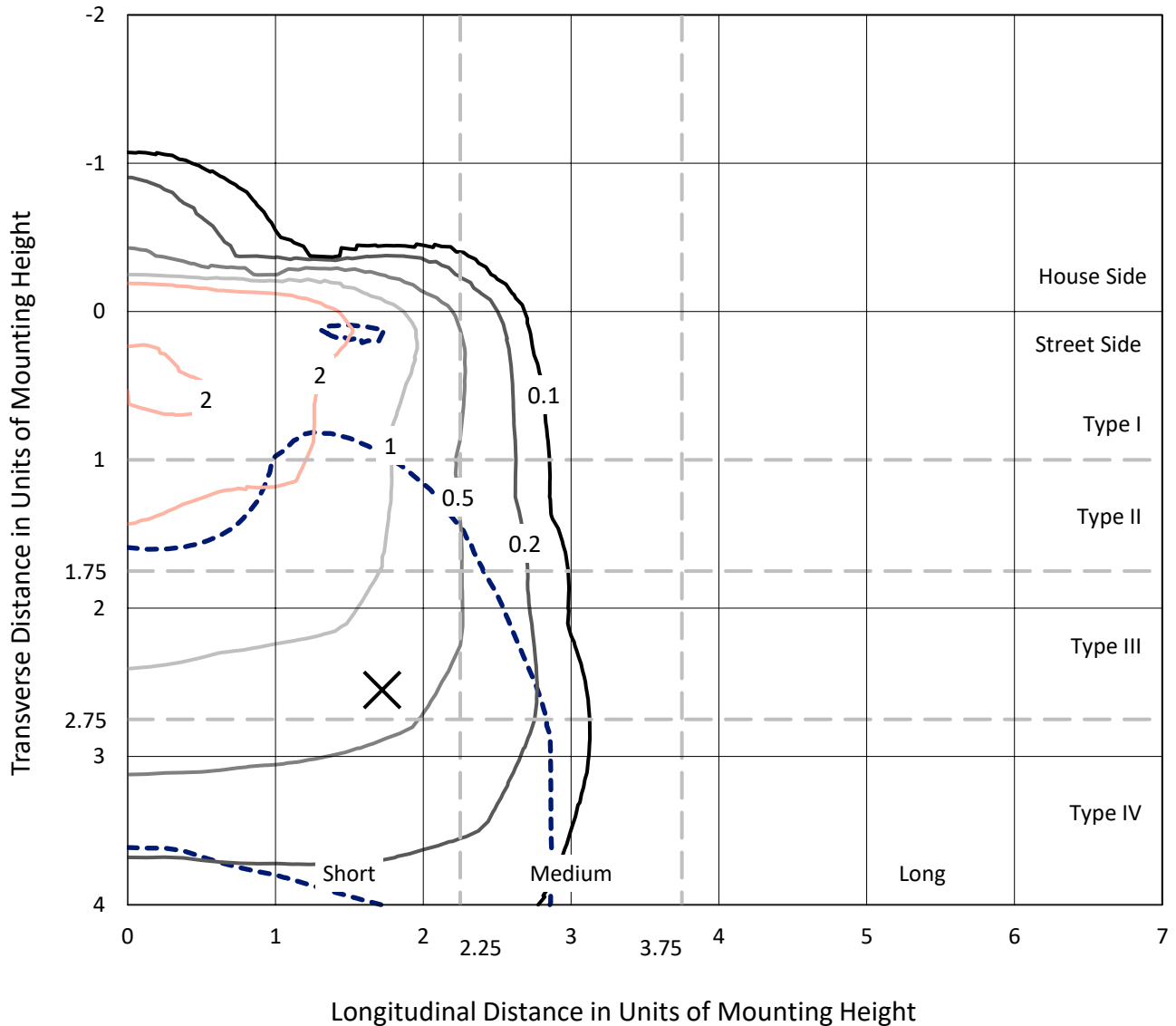
Lumens per Lamp: N/A
Luminaire Lumens: 15316.4 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

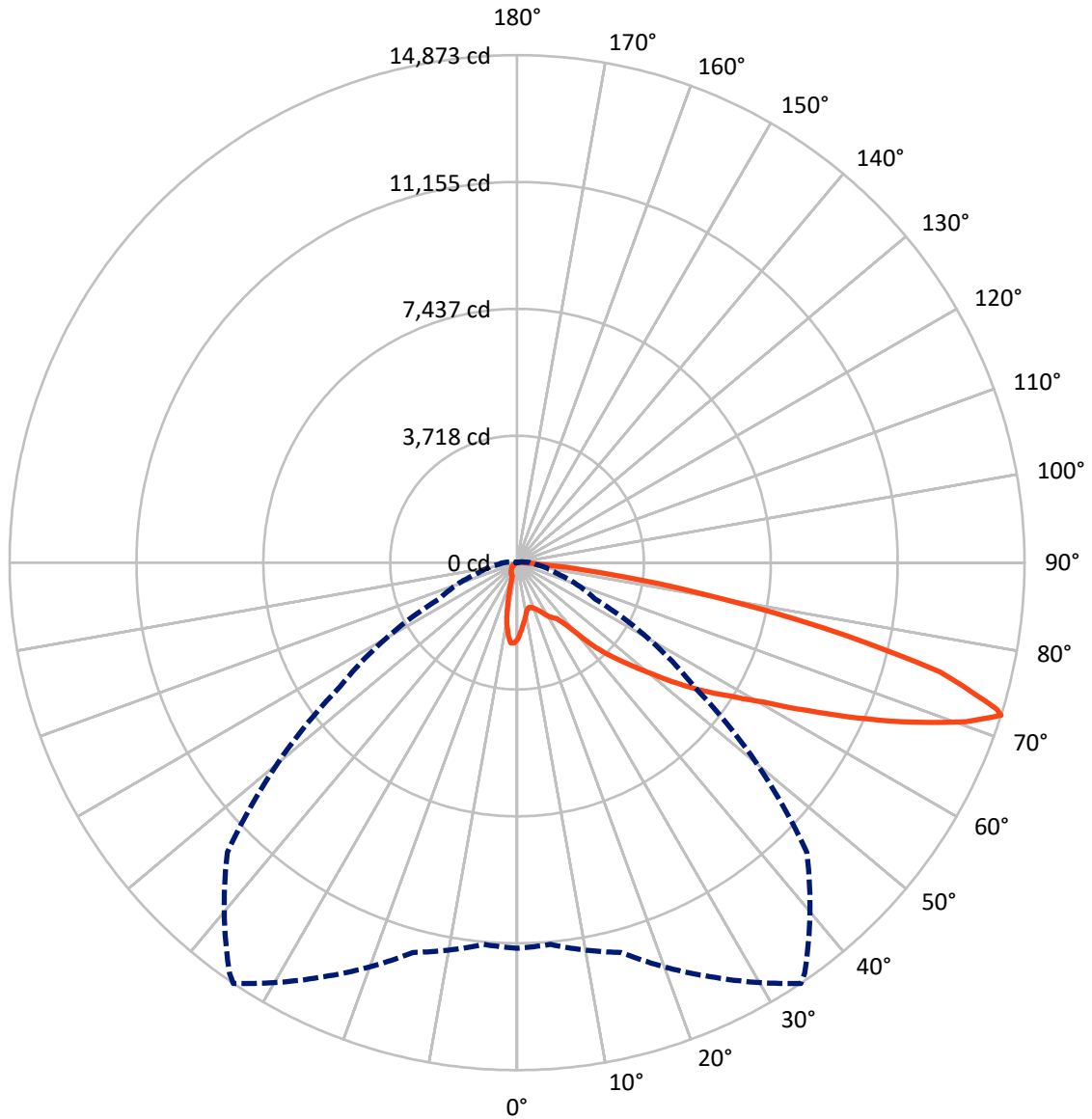
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1568.0	0.0	1568.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	13748.4	0.0	13748.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	15316.4	0.0	15316.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.3
10°-20°	440.4	2.9
20°-30°	664.7	4.3
30°-40°	1078.7	7.0
40°-50°	2028.5	13.2
50°-60°	3316.6	21.7
60°-70°	4409.0	28.8
70°-80°	2952.6	19.3
80°-90°	231.4	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°	15316.4	100.0
0°-180°	15316.4	100.0



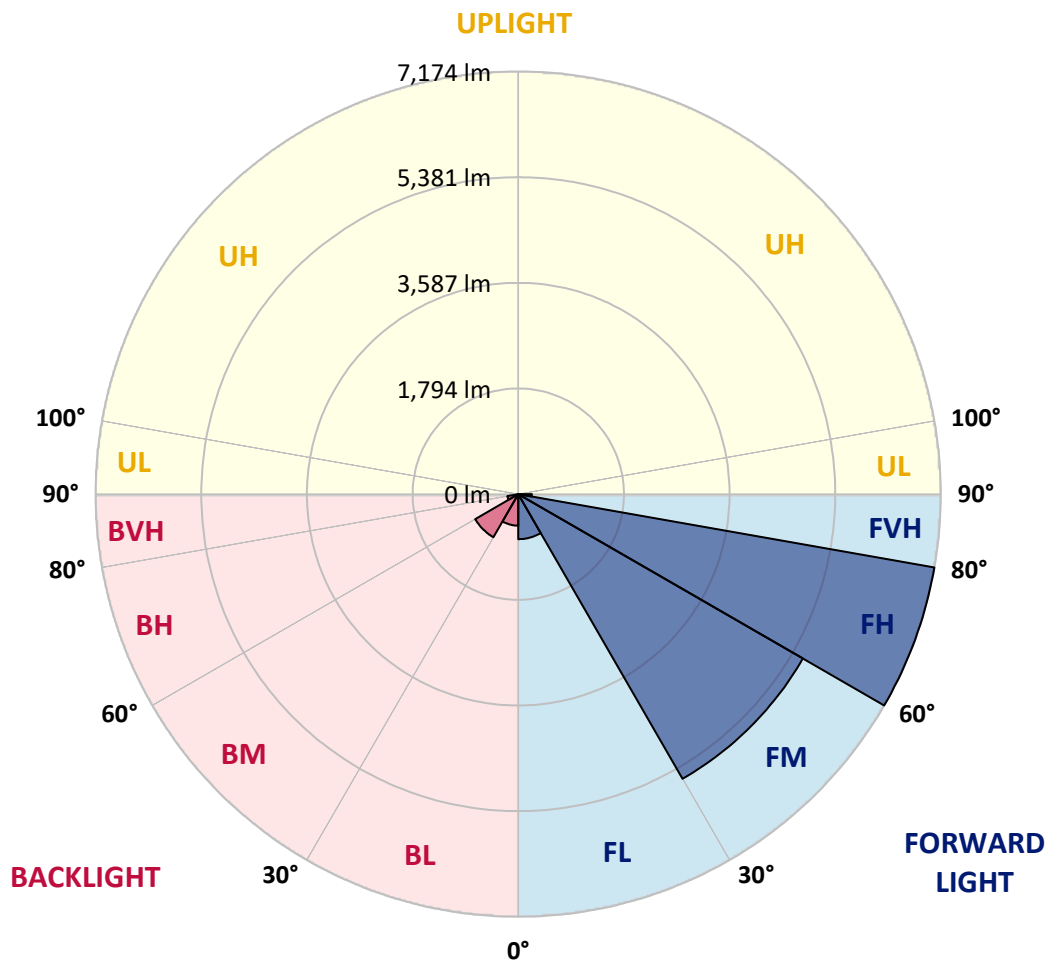
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.6	5.0			
FM (30°-60°)	5579.7	36.4			
FH (60°-80°)	7174.1	46.8			G3/7500
FVH (80°-90°)	229.9	1.5			G3/500
BL (0°-30°)	535.0	3.5	B2/1000		
BM (30°-60°)	844.1	5.5	B1/1000		
BH (60°-80°)	187.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8
2.5°	1981.7	1977.3	1990.6	2012.7	2034.9	2026.0	2068.1	2112.4	2143.4	2185.4	2236.4
5°	1731.5	1742.6	1755.9	1800.2	1829.0	1835.6	1913.1	1970.7	2065.9	2163.3	2254.1
7.5°	1503.5	1516.8	1543.3	1592.0	1651.8	1667.3	1744.8	1860.0	1984.0	2112.4	2260.7
10°	1337.4	1350.7	1379.5	1410.5	1490.2	1490.2	1596.5	1755.9	1917.5	2068.1	2262.9
12.5°	1302.0	1308.6	1306.4	1330.8	1381.7	1392.8	1496.8	1671.7	1860.0	2052.6	2298.4
15°	1344.0	1348.5	1326.3	1313.0	1357.3	1368.4	1465.8	1620.8	1822.3	2061.5	2355.9
17.5°	1428.2	1412.7	1368.4	1348.5	1386.1	1392.8	1483.5	1618.6	1817.9	2085.8	2422.4
20°	1476.9	1494.6	1417.1	1379.5	1432.6	1441.5	1538.9	1654.0	1840.0	2127.9	2515.4
22.5°	1563.2	1572.1	1468.0	1443.7	1494.6	1494.6	1605.3	1724.9	1893.2	2196.5	2626.1
25°	1685.0	1674.0	1552.2	1527.8	1576.5	1596.5	1707.2	1837.8	1975.1	2260.7	2727.9
27.5°	1780.2	1786.9	1687.2	1623.0	1705.0	1718.2	1837.8	1959.6	2037.1	2313.9	2851.9
30°	1922.0	1908.7	1802.4	1729.3	1831.2	1833.4	1948.5	2074.7	2156.7	2409.1	3037.9
32.5°	2090.2	2063.7	1941.9	1837.8	1919.7	1939.7	2057.0	2240.8	2342.7	2588.4	3325.8
35°	2446.7	2382.5	2183.2	2021.6	2028.2	2037.1	2218.7	2482.2	2599.5	2816.5	3711.1
37.5°	2967.1	2940.5	2714.7	2406.9	2289.5	2262.9	2466.7	2801.0	2947.1	3117.6	4211.5
40°	3483.0	3445.3	3235.0	3002.5	2789.9	2736.8	2838.6	3223.9	3356.8	3536.1	4725.2
42.5°	4056.5	3990.1	3742.1	3553.8	3421.0	3363.4	3323.6	3755.3	3905.9	4027.7	5227.8
45°	4636.6	4528.1	4169.4	4025.5	3954.6	3923.6	3919.2	4424.0	4514.8	4539.2	5785.8
47.5°	5145.9	5028.5	4703.0	4541.4	4488.3	4479.4	4727.4	5194.6	5123.7	5059.5	6408.0
50°	5537.8	5462.5	5227.8	5170.2	5130.4	5114.9	5695.0	5987.3	5659.6	5546.7	6954.9
52.5°	6144.5	5976.2	5710.5	5730.4	5869.9	5872.1	6675.9	6740.1	6104.6	5881.0	7470.8
55°	6629.4	6518.7	6301.7	6272.9	6640.5	6680.3	7555.0	7311.4	6352.6	6199.9	7661.3
57.5°	7200.7	7149.8	6992.6	6997.0	7382.3	7466.4	8336.6	7794.1	6558.6	6405.8	7690.0
60°	8026.6	7880.5	7798.5	7836.2	8290.1	8372.0	9093.9	8141.7	6658.2	6540.8	7619.2
62.5°	8938.9	8768.4	8679.8	8872.4	9534.5	9547.8	9669.6	8449.5	6596.2	6576.3	7163.0
65°	10037.1	9868.8	9798.0	10185.5	10971.5	10922.8	10477.8	8580.2	6399.1	6219.8	5965.1
67.5°	11131.0	11029.1	10883.0	11500.7	12479.4	12479.4	11317.0	8531.4	5883.2	4993.1	3901.5
70°	11649.1	11719.9	11952.4	12922.3	13960.7	13854.5	12145.1	7971.2	4379.8	2681.4	1534.5
72°	11303.7	11230.6	11830.7	13387.3	14873.0	14698.1	12005.6	6337.1	2530.9	1175.8	533.6
72.5°	10710.3	10778.9	11604.8	13323.0	14702.5	14846.4	11664.6	5845.6	2081.4	936.6	403.0
75°	6567.4	6684.8	8662.1	11312.5	12811.6	12649.9	9023.0	2785.5	799.3	398.6	143.9
77.5°	2398.0	2495.4	4202.6	7118.8	9111.6	9009.7	5221.2	989.8	434.0	296.7	73.1
80°	624.4	675.3	1428.2	3283.7	5358.4	5365.1	2185.4	396.3	294.5	243.6	44.3
82.5°	124.0	137.3	438.4	1277.6	2504.3	2471.1	690.8	212.6	221.4	199.3	31.0
85°	15.5	19.9	93.0	434.0	810.4	726.3	170.5	106.3	163.9	155.0	19.9
87.5°	2.2	2.2	22.1	99.6	170.5	166.1	35.4	33.2	73.1	95.2	11.1
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°	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8	2240.8
2.5°	2265.2	2274.0	2305.0	2331.6	2362.6	2371.4	2358.2	2380.3	2349.3	2367.0	2371.4
5°	2269.6	2320.5	2378.1	2415.7	2406.9	2384.7	2367.0	2307.2	2265.2	2249.7	2282.9
7.5°	2300.6	2358.2	2420.2	2420.2	2371.4	2256.3	2145.6	2039.3	1950.7	1906.5	1944.1
10°	2340.4	2400.2	2464.4	2380.3	2198.7	1988.4	1831.2	1631.9	1496.8	1426.0	1432.6
12.5°	2393.6	2477.7	2499.9	2305.0	2003.9	1691.7	1406.0	1129.3	1000.8	899.0	901.2
15°	2462.2	2544.2	2477.7	2141.2	1755.9	1295.3	952.1	688.6	586.8	533.6	533.6
17.5°	2553.0	2615.0	2471.1	1990.6	1421.5	885.7	584.6	465.0	442.8	434.0	434.0
20°	2659.3	2705.8	2406.9	1755.9	1056.2	569.1	429.6	416.3	418.5	414.1	414.1
22.5°	2778.9	2794.4	2333.8	1483.5	715.2	420.7	400.8	403.0	405.2	400.8	403.0
25°	2905.1	2863.0	2227.5	1164.7	476.1	383.1	387.5	391.9	394.1	396.3	396.3
27.5°	3046.8	2962.6	2079.2	852.5	372.0	360.9	374.2	387.5	389.7	389.7	387.5
30°	3254.9	3115.4	1935.2	577.9	327.7	336.6	358.7	374.2	385.3	385.3	383.1
32.5°	3518.4	3274.9	1733.7	394.1	303.4	307.8	325.5	356.5	380.8	383.1	376.4
35°	3883.8	3467.5	1523.4	314.4	285.6	287.9	298.9	323.3	365.3	378.6	376.4
37.5°	4269.0	3686.7	1262.1	283.4	272.4	270.1	276.8	296.7	334.3	367.6	369.8
40°	4678.7	3917.0	987.5	267.9	261.3	256.9	259.1	267.9	296.7	338.8	347.6
42.5°	5064.0	4125.1	741.8	252.4	250.2	245.8	245.8	248.0	263.5	292.3	296.7
45°	5480.2	4295.6	564.6	241.4	234.7	236.9	228.1	223.6	234.7	236.9	234.7
47.5°	5869.9	4466.1	451.7	228.1	221.4	221.4	210.4	201.5	201.5	181.6	179.4
50°	6235.3	4559.1	360.9	210.4	208.1	205.9	190.4	174.9	161.6	137.3	132.9
52.5°	6538.6	4554.7	279.0	188.2	194.9	188.2	163.9	141.7	121.8	99.6	95.2
55°	6629.4	4342.1	210.4	155.0	166.1	157.2	130.6	110.7	88.6	70.9	68.6
57.5°	6551.9	4018.8	159.4	119.6	128.4	119.6	99.6	81.9	62.0	48.7	44.3
60°	6292.9	3640.2	124.0	93.0	97.4	90.8	75.3	62.0	44.3	31.0	26.6
62.5°	5801.3	3166.4	95.2	73.1	70.9	70.9	57.6	46.5	31.0	17.7	15.5
65°	4760.6	2468.9	73.1	50.9	50.9	50.9	44.3	33.2	19.9	8.9	4.4
67.5°	2989.2	1437.0	59.8	39.9	37.6	37.6	31.0	22.1	11.1	2.2	0.0
70°	1124.8	527.0	46.5	31.0	28.8	28.8	22.1	13.3	6.6	0.0	0.0
72°	387.5	201.5	37.6	22.1	22.1	19.9	15.5	11.1	4.4	0.0	0.0
72.5°	318.8	161.6	35.4	22.1	19.9	19.9	15.5	11.1	4.4	0.0	0.0
75°	115.1	66.4	24.4	15.5	13.3	13.3	11.1	6.6	2.2	0.0	0.0
77.5°	57.6	42.1	19.9	13.3	11.1	6.6	6.6	4.4	2.2	0.0	0.0
80°	35.4	26.6	11.1	8.9	6.6	4.4	2.2	2.2	0.0	0.0	0.0
82.5°	24.4	15.5	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.6	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.4	2.2	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)