

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: P483268

Luminaire Tested: **IFLD-S-SA3D-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483268
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

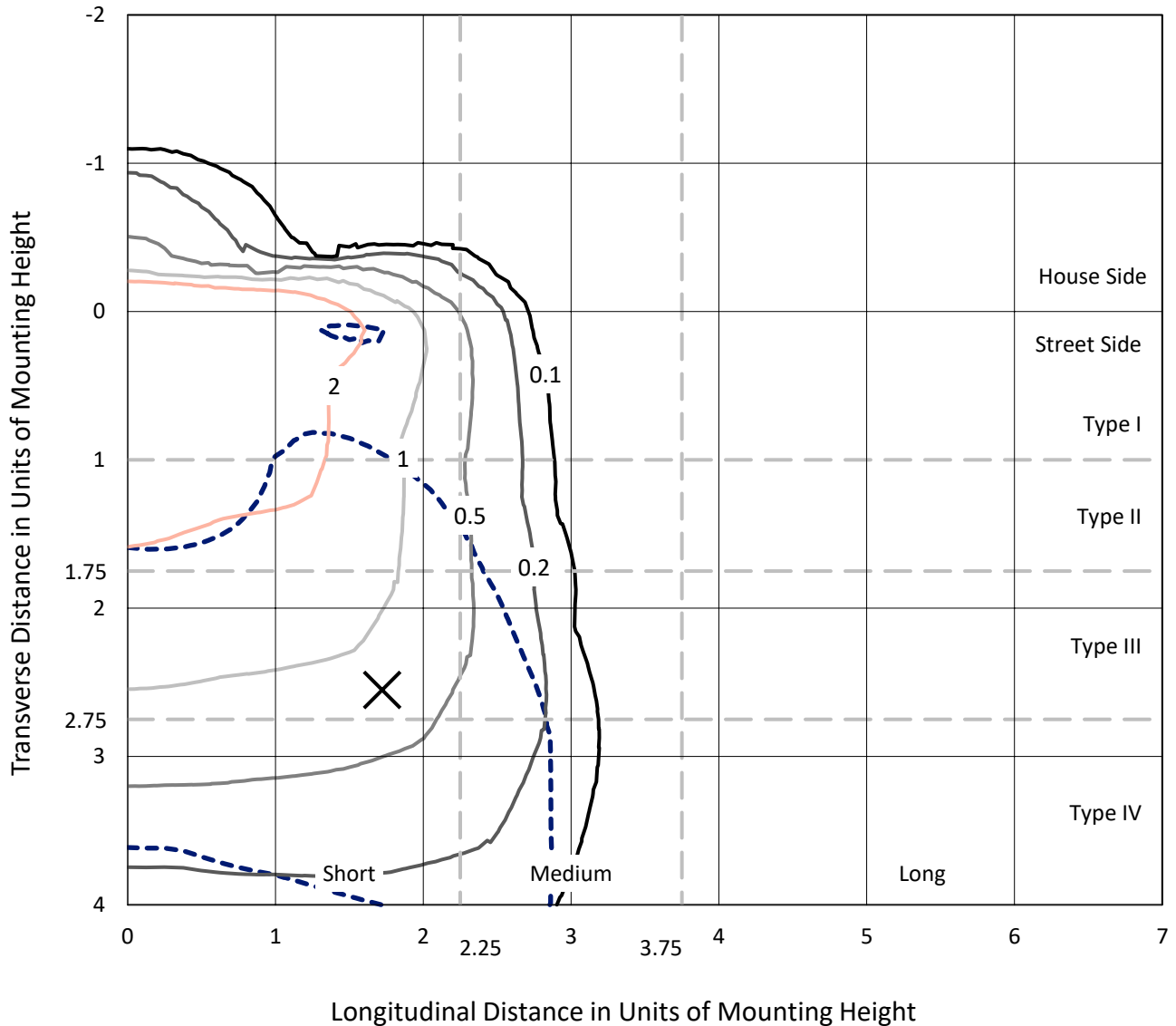
Lumens per Lamp: N/A
Luminaire Lumens: 17239 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

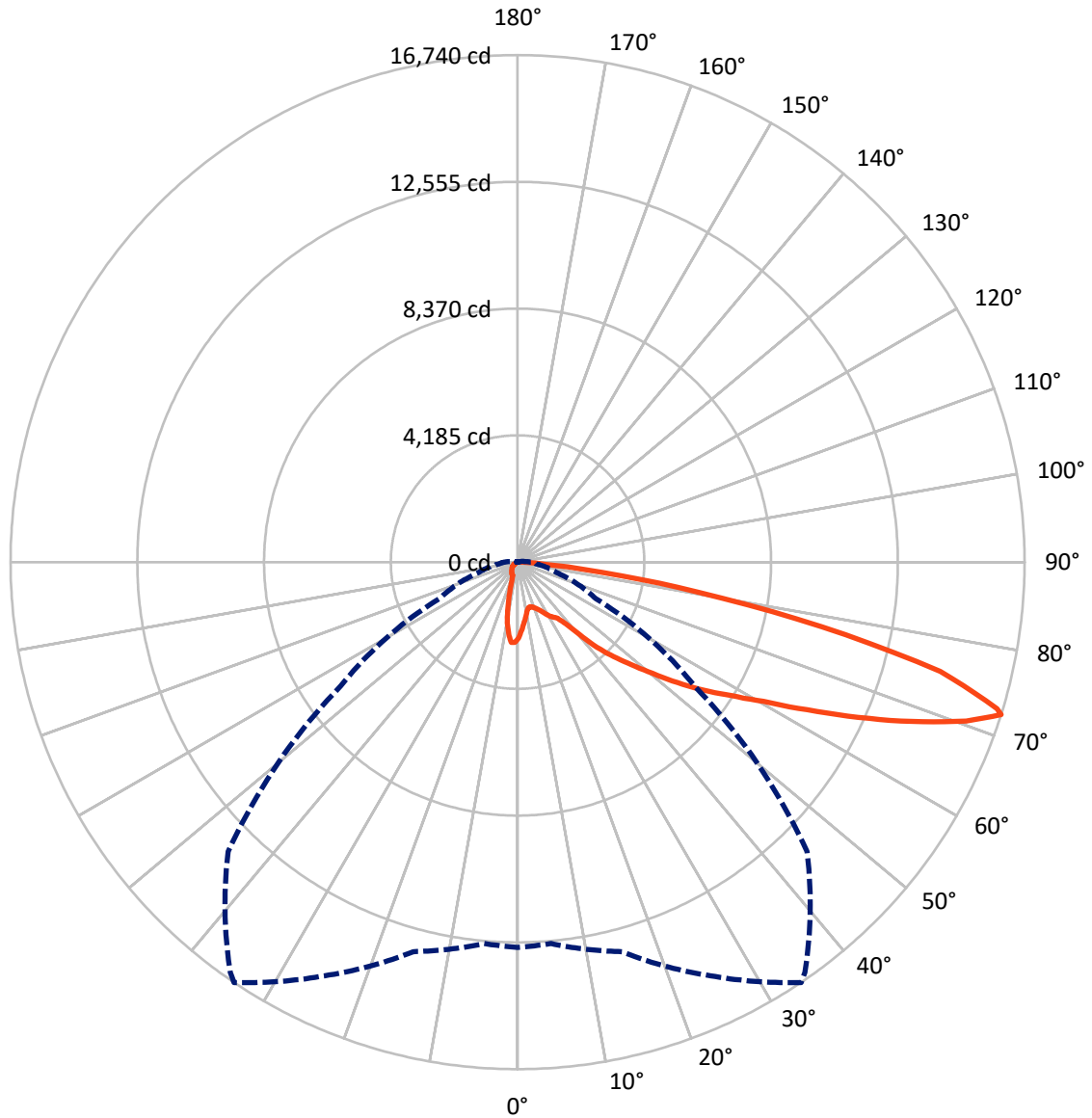
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1764.9	0.0	1764.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	15474.1	0.0	15474.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	17239.0	0.0	17239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	1.3
10°-20°	495.7	2.9
20°-30°	748.2	4.3
30°-40°	1214.1	7.0
40°-50°	2283.1	13.2
50°-60°	3732.9	21.7
60°-70°	4962.4	28.8
70°-80°	3323.3	19.3
80°-90°	260.4	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°	17239.0	100.0
0°-180°	17239.0	100.0



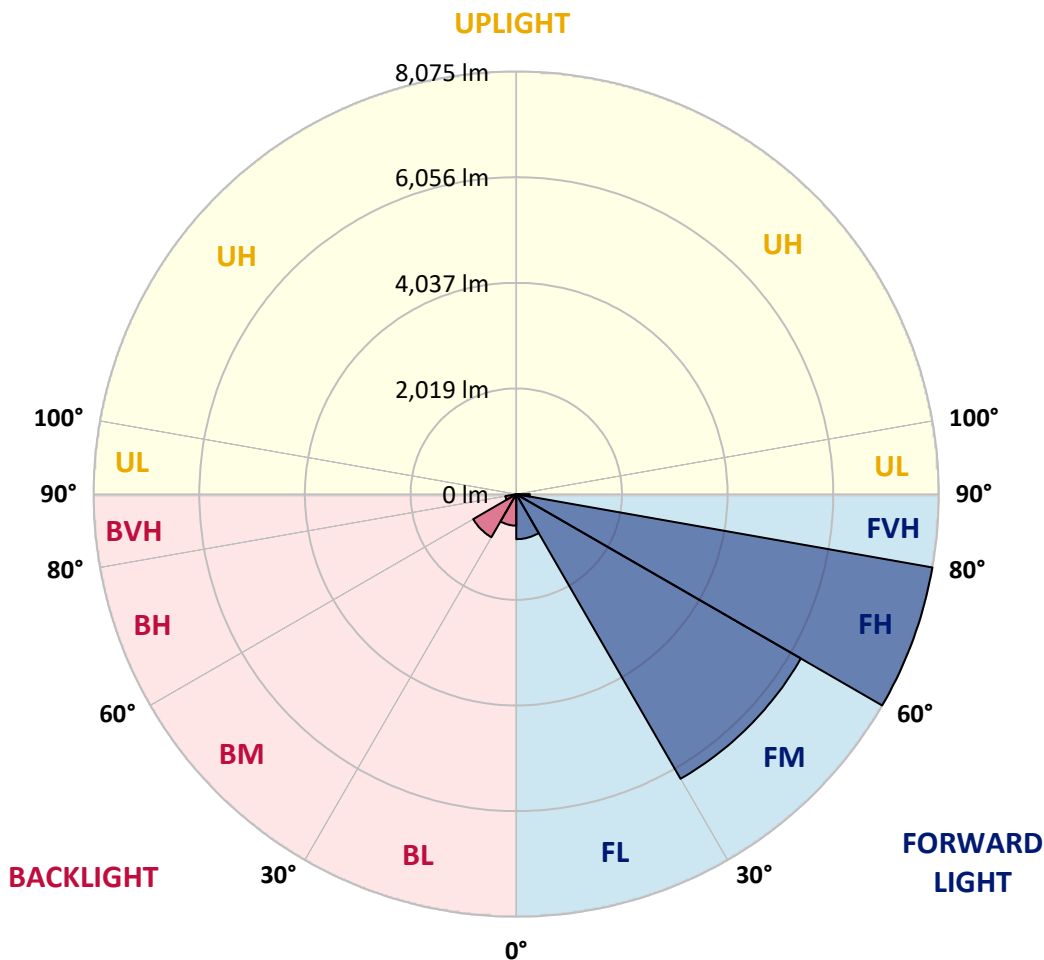
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.6	5.0			
FM (30°-60°)	6280.1	36.4			
FH (60°-80°)	8074.6	46.8			G4/12000
FVH (80°-90°)	258.8	1.5			G3/500
BL (0°-30°)	602.2	3.5	B2/1000		
BM (30°-60°)	950.0	5.5	B1/1000		
BH (60°-80°)	211.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1
2.5°	2230.5	2225.5	2240.5	2265.4	2290.3	2280.3	2327.7	2377.5	2412.4	2459.8	2517.1
5°	1948.9	1961.3	1976.3	2026.1	2058.5	2066.0	2153.2	2218.0	2325.2	2434.8	2537.0
7.5°	1692.2	1707.1	1737.0	1791.9	1859.2	1876.6	1963.8	2093.4	2233.0	2377.5	2544.5
10°	1505.3	1520.2	1552.6	1587.5	1677.2	1677.2	1796.9	1976.3	2158.2	2327.7	2547.0
12.5°	1465.4	1472.9	1470.4	1497.8	1555.1	1567.6	1684.7	1881.6	2093.4	2310.2	2586.9
15°	1512.7	1517.7	1492.8	1477.9	1527.7	1540.2	1649.8	1824.3	2051.1	2320.2	2651.7
17.5°	1607.4	1590.0	1540.2	1517.7	1560.1	1567.6	1669.8	1821.8	2046.1	2347.6	2726.4
20°	1662.3	1682.2	1595.0	1552.6	1612.4	1622.4	1732.1	1861.6	2071.0	2395.0	2831.1
22.5°	1759.5	1769.4	1652.3	1624.9	1682.2	1682.2	1806.8	1941.4	2130.8	2472.2	2955.7
25°	1896.5	1884.1	1747.0	1719.6	1774.4	1796.9	1921.5	2068.5	2223.0	2544.5	3070.3
27.5°	2003.7	2011.2	1899.0	1826.8	1919.0	1933.9	2068.5	2205.6	2292.8	2604.3	3209.9
30°	2163.2	2148.2	2028.6	1946.4	2061.0	2063.5	2193.1	2335.2	2427.4	2711.5	3419.3
32.5°	2352.6	2322.7	2185.6	2068.5	2160.7	2183.1	2315.2	2522.1	2636.7	2913.3	3743.2
35°	2753.8	2681.6	2457.3	2275.3	2282.8	2292.8	2497.1	2793.7	2925.8	3170.0	4176.9
37.5°	3339.5	3309.6	3055.4	2709.0	2576.9	2547.0	2776.3	3152.6	3317.1	3509.0	4740.1
40°	3920.2	3877.8	3641.1	3379.4	3140.1	3080.3	3195.0	3628.6	3778.1	3980.0	5318.3
42.5°	4565.6	4490.9	4211.8	3999.9	3850.4	3785.6	3740.7	4226.7	4396.2	4533.2	5884.0
45°	5218.6	5096.5	4692.7	4530.8	4451.0	4416.1	4411.1	4979.3	5081.5	5108.9	6512.0
47.5°	5791.8	5659.7	5293.4	5111.4	5051.6	5041.7	5320.8	5846.6	5766.9	5694.6	7212.3
50°	6232.9	6148.2	5884.0	5819.2	5774.3	5756.9	6409.8	6738.8	6370.0	6242.9	7827.9
52.5°	6915.8	6726.4	6427.3	6449.7	6606.7	6609.2	7513.9	7586.2	6870.9	6619.2	8408.6
55°	7461.5	7336.9	7092.7	7060.3	7474.0	7518.9	8503.3	8229.1	7150.0	6978.1	8622.9
57.5°	8104.5	8047.2	7870.3	7875.2	8308.9	8403.6	9383.0	8772.4	7381.8	7209.8	8655.3
60°	9034.1	8869.6	8777.4	8819.8	9330.7	9422.9	10235.3	9163.7	7493.9	7361.9	8575.5
62.5°	10060.9	9869.0	9769.3	9986.1	10731.3	10746.2	10883.3	9510.1	7424.2	7401.7	8062.2
65°	11297.0	11107.6	11027.8	11464.0	12348.7	12293.9	11792.9	9657.1	7202.4	7000.5	6713.9
67.5°	12528.1	12413.5	12249.0	12944.3	14045.8	14045.8	12737.5	9602.3	6621.7	5619.8	4391.2
70°	13111.3	13191.0	13452.7	14544.3	15713.1	15593.5	13669.5	8971.8	4929.5	3018.0	1727.1
72°	12722.5	12640.3	13315.6	15067.6	16739.9	16543.0	13512.5	7132.6	2848.5	1323.3	600.6
72.5°	12054.6	12131.9	13061.4	14995.4	16548.0	16710.0	13128.7	6579.3	2342.6	1054.2	453.6
75°	7391.8	7523.8	9749.4	12732.5	14419.7	14237.7	10155.6	3135.1	899.7	448.6	162.0
77.5°	2699.0	2808.7	4730.1	8012.3	10255.3	10140.6	5876.5	1114.0	488.5	334.0	82.2
80°	702.8	760.1	1607.4	3695.9	6031.0	6038.5	2459.8	446.1	331.5	274.1	49.8
82.5°	139.6	154.5	493.4	1438.0	2818.6	2781.3	777.6	239.2	249.2	224.3	34.9
85°	17.4	22.4	104.7	488.5	912.1	817.4	191.9	119.6	184.4	174.5	22.4
87.5°	2.5	2.5	24.9	112.1	191.9	186.9	39.9	37.4	82.2	107.2	12.5
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°	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1
2.5°	2549.5	2559.5	2594.3	2624.2	2659.1	2669.1	2654.2	2679.1	2644.2	2664.1	2669.1
5°	2554.5	2611.8	2676.6	2719.0	2709.0	2684.1	2664.1	2596.8	2549.5	2532.0	2569.4
7.5°	2589.4	2654.2	2723.9	2723.9	2669.1	2539.5	2414.9	2295.3	2195.6	2145.8	2188.1
10°	2634.2	2701.5	2773.8	2679.1	2474.7	2238.0	2061.0	1836.7	1684.7	1605.0	1612.4
12.5°	2694.0	2788.7	2813.7	2594.3	2255.4	1904.0	1582.5	1271.0	1126.5	1011.8	1014.3
15°	2771.3	2863.5	2788.7	2409.9	1976.3	1457.9	1071.6	775.1	660.4	600.6	600.6
17.5°	2873.5	2943.2	2781.3	2240.5	1600.0	996.9	657.9	523.4	498.4	488.5	488.5
20°	2993.1	3045.4	2709.0	1976.3	1188.8	640.5	483.5	468.5	471.0	466.0	466.0
22.5°	3127.7	3145.1	2626.7	1669.8	805.0	473.5	451.1	453.6	456.1	451.1	453.6
25°	3269.7	3222.4	2507.1	1310.9	535.8	431.1	436.1	441.1	443.6	446.1	446.1
27.5°	3429.2	3334.5	2340.1	959.5	418.7	406.2	421.2	436.1	438.6	438.6	436.1
30°	3663.5	3506.5	2178.2	650.5	368.8	378.8	403.7	421.2	433.6	433.6	431.1
32.5°	3960.1	3685.9	1951.4	443.6	341.4	346.4	366.3	401.2	428.7	431.1	423.7
35°	4371.3	3902.7	1714.6	353.9	321.5	324.0	336.4	363.9	411.2	426.2	423.7
37.5°	4804.9	4149.5	1420.5	319.0	306.5	304.0	311.5	334.0	376.3	413.7	416.2
40°	5265.9	4408.6	1111.5	301.6	294.1	289.1	291.6	301.6	334.0	381.3	391.3
42.5°	5699.6	4642.9	834.9	284.1	281.6	276.6	276.6	279.1	296.6	329.0	334.0
45°	6168.1	4834.8	635.5	271.6	264.2	266.7	256.7	251.7	264.2	266.7	264.2
47.5°	6606.7	5026.7	508.4	256.7	249.2	249.2	236.8	226.8	226.8	204.4	201.9
50°	7017.9	5131.4	406.2	236.8	234.3	231.8	214.3	196.9	181.9	154.5	149.5
52.5°	7359.4	5126.4	314.0	211.8	219.3	211.8	184.4	159.5	137.1	112.1	107.2
55°	7461.5	4887.1	236.8	174.5	186.9	176.9	147.0	124.6	99.7	79.7	77.3
57.5°	7374.3	4523.3	179.4	134.6	144.5	134.6	112.1	92.2	69.8	54.8	49.8
60°	7082.7	4097.1	139.6	104.7	109.7	102.2	84.7	69.8	49.8	34.9	29.9
62.5°	6529.5	3563.8	107.2	82.2	79.7	79.7	64.8	52.3	34.9	19.9	17.4
65°	5358.2	2778.8	82.2	57.3	57.3	57.3	49.8	37.4	22.4	10.0	5.0
67.5°	3364.4	1617.4	67.3	44.9	42.4	42.4	34.9	24.9	12.5	2.5	0.0
70°	1266.0	593.1	52.3	34.9	32.4	32.4	24.9	15.0	7.5	0.0	0.0
72°	436.1	226.8	42.4	24.9	24.9	22.4	17.4	12.5	5.0	0.0	0.0
72.5°	358.9	181.9	39.9	24.9	22.4	22.4	17.4	12.5	5.0	0.0	0.0
75°	129.6	74.8	27.4	17.4	15.0	15.0	12.5	7.5	2.5	0.0	0.0
77.5°	64.8	47.4	22.4	15.0	12.5	7.5	7.5	5.0	2.5	0.0	0.0
80°	39.9	29.9	12.5	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0
82.5°	27.4	17.4	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.4	7.5	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	5.0	2.5	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)