

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: P483202

Luminaire Tested: **IFLD-S-SA6A-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483202
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

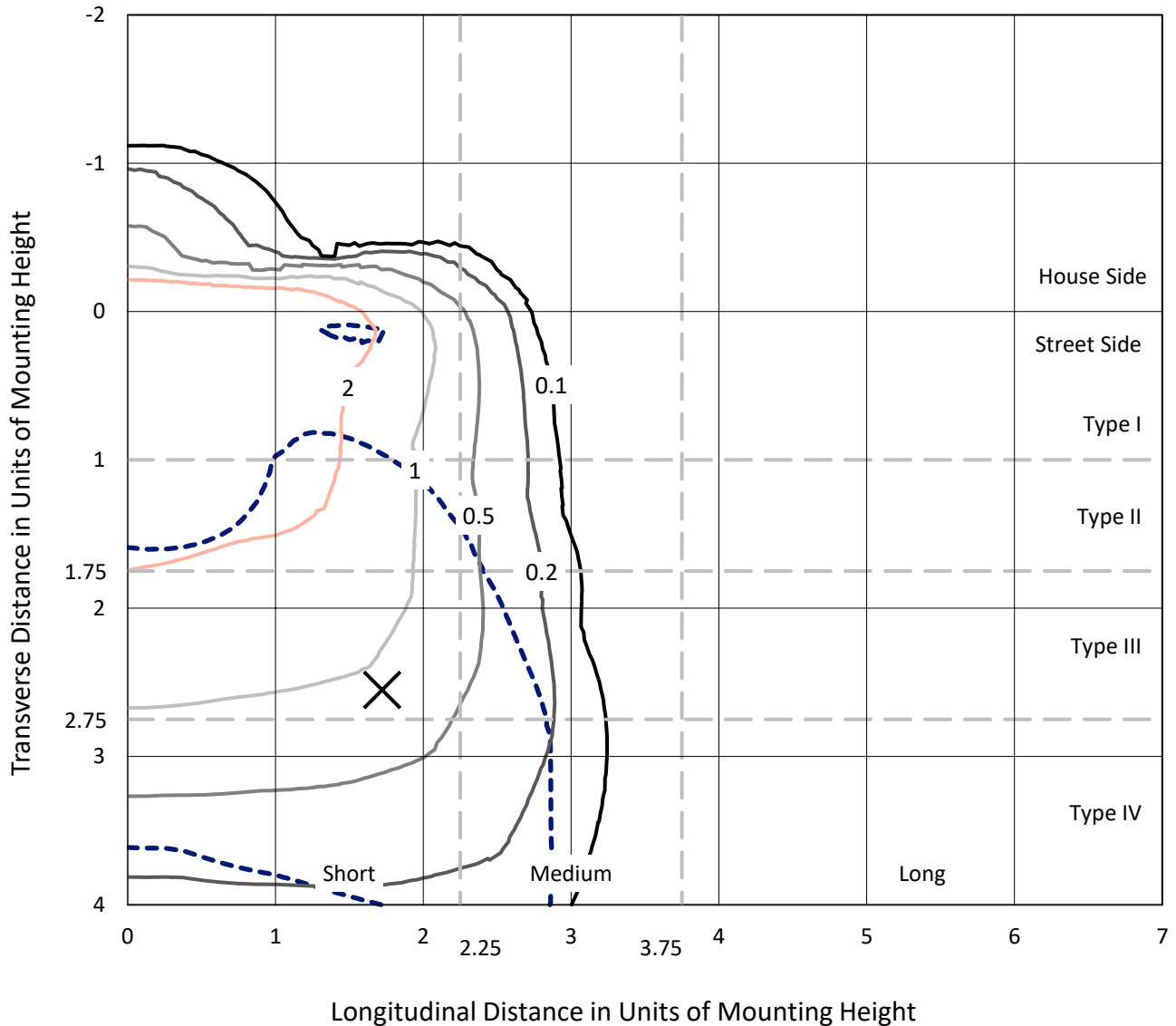
Lumens per Lamp: N/A
Luminaire Lumens: 19248.7 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

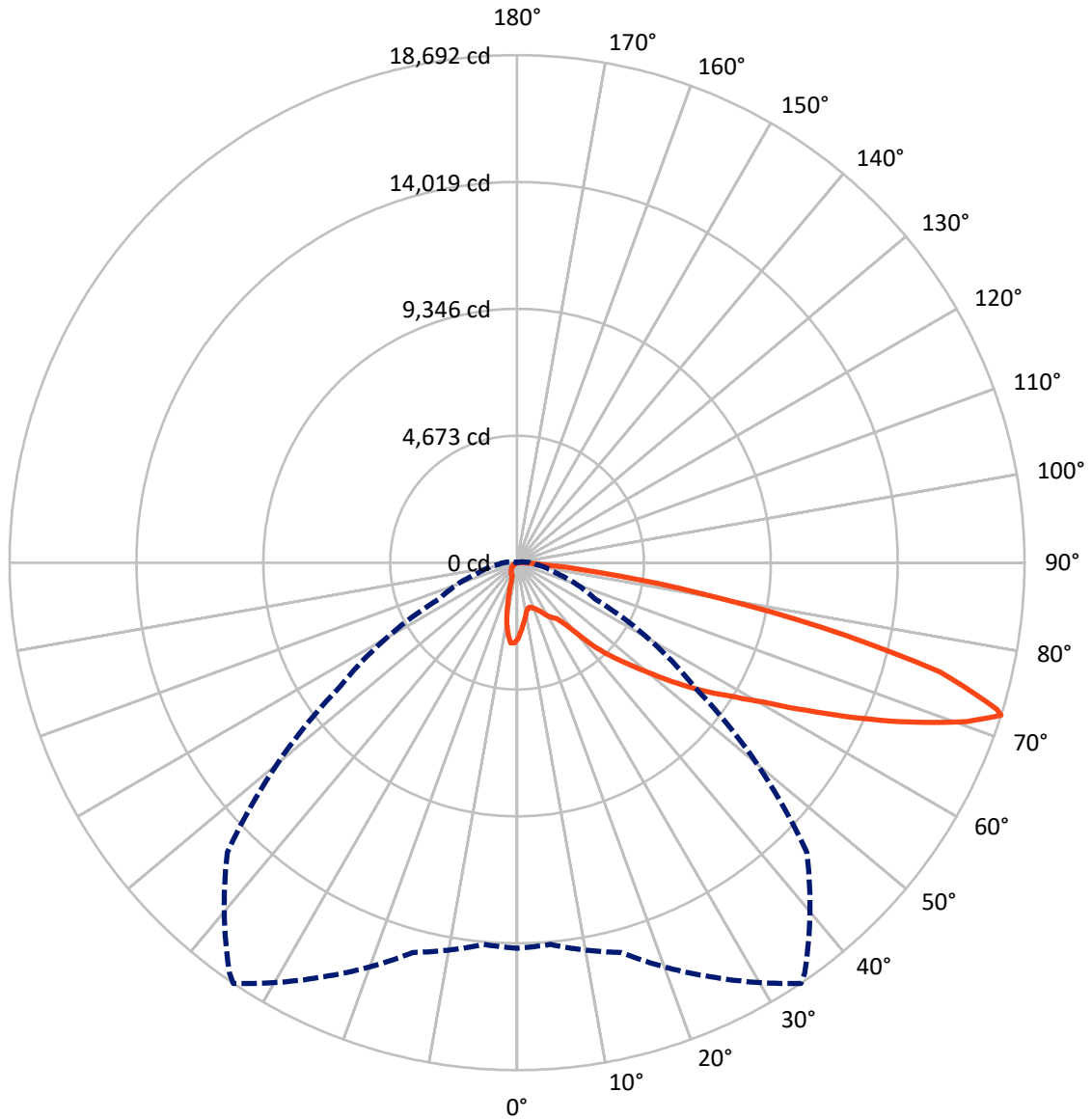
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1970.6	0.0	1970.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	17278.1	0.0	17278.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	19248.7	0.0	19248.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	1.3
10°-20°	553.5	2.9
20°-30°	835.4	4.3
30°-40°	1355.7	7.0
40°-50°	2549.3	13.2
50°-60°	4168.1	21.7
60°-70°	5540.9	28.8
70°-80°	3710.7	19.3
80°-90°	290.8	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°	19248.7	100.0
0°-180°	19248.7	100.0

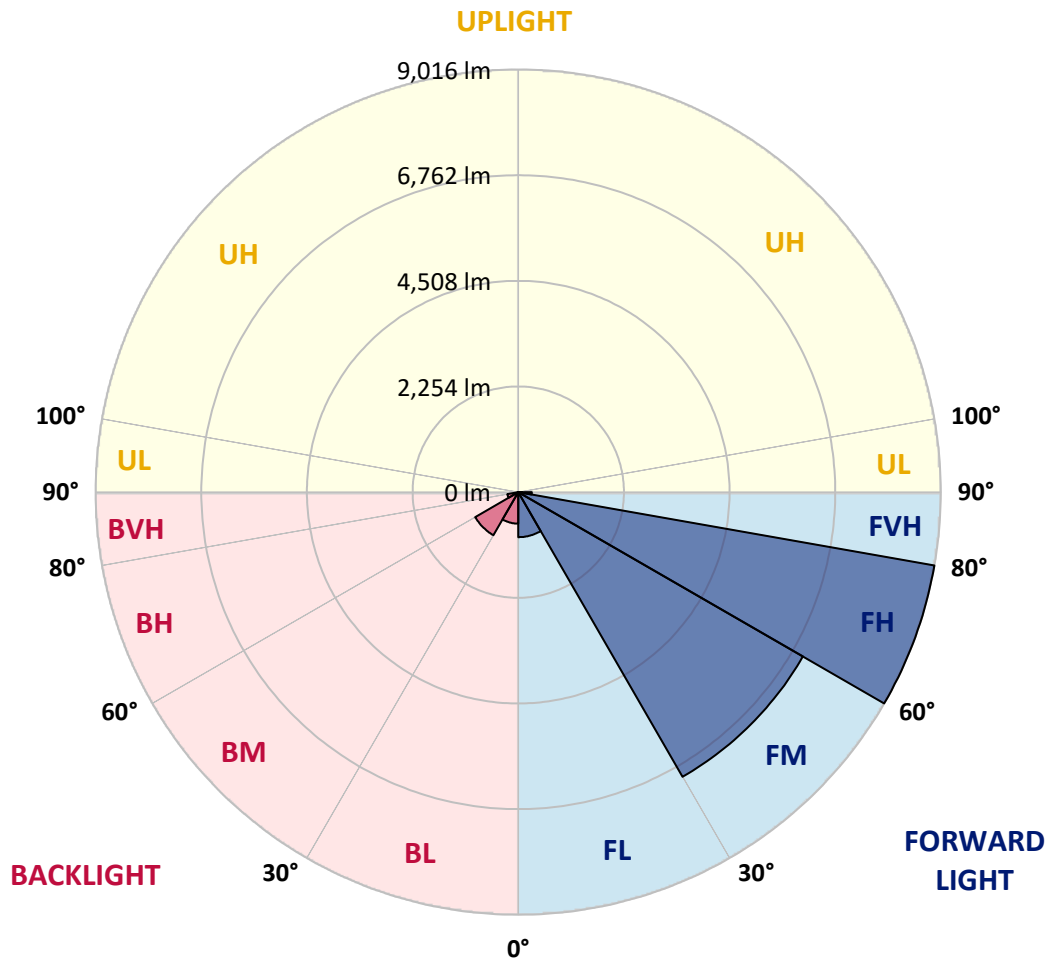


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.9	5.0			
FM (30°-60°)	7012.3	36.4			
FH (60°-80°)	9015.9	46.8			G4/12000
FVH (80°-90°)	289.0	1.5			G3/500
BL (0°-30°)	672.4	3.5	B2/1000		
BM (30°-60°)	1060.8	5.5	B2/2500		
BH (60°-80°)	235.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	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°	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1
2.5°	2490.5	2485.0	2501.7	2529.5	2557.3	2546.2	2599.1	2654.7	2693.7	2746.5	2810.5
5°	2176.1	2190.0	2206.7	2262.3	2298.5	2306.9	2404.3	2476.6	2596.3	2718.7	2832.8
7.5°	1889.5	1906.2	1939.5	2000.8	2075.9	2095.4	2192.8	2337.5	2493.3	2654.7	2841.1
10°	1680.8	1697.5	1733.6	1772.6	1872.8	1872.8	2006.3	2206.7	2409.8	2599.1	2843.9
12.5°	1636.2	1644.6	1641.8	1672.4	1736.4	1750.3	1881.1	2100.9	2337.5	2579.6	2888.5
15°	1689.1	1694.7	1666.8	1650.1	1705.8	1719.7	1842.2	2036.9	2290.2	2590.7	2960.8
17.5°	1794.8	1775.4	1719.7	1694.7	1742.0	1750.3	1864.4	2034.2	2284.6	2621.3	3044.3
20°	1856.1	1878.3	1780.9	1733.6	1800.4	1811.5	1934.0	2078.7	2312.4	2674.2	3161.2
22.5°	1964.6	1975.7	1844.9	1814.3	1878.3	1878.3	2017.5	2167.7	2379.2	2760.4	3300.3
25°	2117.6	2103.7	1950.7	1920.1	1981.3	2006.3	2145.5	2309.6	2482.2	2841.1	3428.3
27.5°	2237.3	2245.6	2120.4	2039.7	2142.7	2159.4	2309.6	2462.7	2560.1	2907.9	3584.1
30°	2415.4	2398.7	2265.1	2173.3	2301.3	2304.1	2448.8	2607.4	2710.4	3027.6	3817.9
32.5°	2626.9	2593.5	2440.4	2309.6	2412.6	2437.7	2585.1	2816.1	2944.1	3253.0	4179.6
35°	3074.9	2994.2	2743.8	2540.6	2549.0	2560.1	2788.3	3119.4	3266.9	3539.6	4663.8
37.5°	3728.8	3695.4	3411.6	3024.8	2877.3	2843.9	3099.9	3520.1	3703.8	3918.1	5292.7
40°	4377.2	4329.9	4065.5	3773.4	3506.2	3439.4	3567.4	4051.6	4218.6	4444.0	5938.3
42.5°	5097.9	5014.4	4702.8	4466.3	4299.3	4226.9	4176.8	4719.5	4908.7	5061.8	6570.0
45°	5827.0	5690.6	5239.8	5059.0	4969.9	4931.0	4925.4	5559.9	5673.9	5704.6	7271.2
47.5°	6467.0	6319.5	5910.5	5707.3	5640.6	5629.4	5941.1	6528.2	6439.2	6358.5	8053.2
50°	6959.6	6864.9	6570.0	6497.6	6447.5	6428.1	7157.1	7524.4	7112.6	6970.7	8740.5
52.5°	7722.0	7510.5	7176.6	7201.7	7377.0	7379.7	8389.9	8470.6	7671.9	7390.9	9388.9
55°	8331.4	8192.3	7919.6	7883.4	8345.3	8395.4	9494.6	9188.5	7983.6	7791.6	9628.2
57.5°	9049.4	8985.4	8787.8	8793.4	9277.6	9383.3	10476.9	9795.1	8242.4	8050.4	9664.4
60°	10087.3	9903.7	9800.7	9848.0	10418.5	10521.4	11428.6	10232.0	8367.6	8220.1	9575.3
62.5°	11233.8	11019.5	10908.2	11150.3	11982.4	11999.0	12152.1	10618.8	8289.7	8264.7	9002.1
65°	12614.0	12402.5	12313.5	12800.5	13788.3	13727.1	13167.8	10783.0	8042.0	7816.6	7496.6
67.5°	13988.7	13860.7	13677.0	14453.4	15683.4	15683.4	14222.4	10721.8	7393.7	6275.0	4903.1
70°	14639.8	14728.9	15021.1	16239.9	17545.0	17411.4	15263.2	10017.8	5504.2	3369.9	1928.4
72°	14205.7	14113.9	14868.0	16824.3	18691.5	18471.6	15087.9	7964.1	3180.6	1477.6	670.6
72.5°	13460.0	13546.2	14584.2	16743.6	18477.2	18658.1	14659.3	7346.4	2615.7	1177.1	506.5
75°	8253.5	8401.0	10886.0	14216.9	16100.8	15897.6	11339.5	3500.6	1004.6	500.9	180.9
77.5°	3013.7	3136.1	5281.6	8946.4	11450.9	11322.8	6561.6	1243.9	545.4	372.9	91.8
80°	784.7	848.7	1794.8	4126.8	6734.2	6742.5	2746.5	498.1	370.1	306.1	55.7
82.5°	155.8	172.5	551.0	1605.6	3147.2	3105.5	868.2	267.1	278.3	250.4	39.0
85°	19.5	25.0	116.9	545.4	1018.5	912.7	214.3	133.6	205.9	194.8	25.0
87.5°	2.8	2.8	27.8	125.2	214.3	208.7	44.5	41.7	91.8	119.7	13.9
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°	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1	2816.1
2.5°	2846.7	2857.8	2896.8	2930.2	2969.2	2980.3	2963.6	2991.4	2952.5	2974.7	2980.3
5°	2852.3	2916.3	2988.6	3035.9	3024.8	2997.0	2974.7	2899.6	2846.7	2827.2	2869.0
7.5°	2891.2	2963.6	3041.5	3041.5	2980.3	2835.6	2696.4	2562.9	2451.6	2395.9	2443.2
10°	2941.3	3016.5	3097.2	2991.4	2763.2	2498.9	2301.3	2050.9	1881.1	1792.1	1800.4
12.5°	3008.1	3113.9	3141.7	2896.8	2518.4	2126.0	1767.0	1419.2	1257.8	1129.8	1132.6
15°	3094.4	3197.3	3113.9	2690.9	2206.7	1627.9	1196.6	865.4	737.4	670.6	670.6
17.5°	3208.5	3286.4	3105.5	2501.7	1786.5	1113.1	734.6	584.4	556.5	545.4	545.4
20°	3342.0	3400.5	3024.8	2206.7	1327.4	715.2	539.8	523.1	525.9	520.4	520.4
22.5°	3492.3	3511.8	2933.0	1864.4	898.8	528.7	503.7	506.5	509.2	503.7	506.5
25°	3650.9	3598.0	2799.4	1463.7	598.3	481.4	487.0	492.5	495.3	498.1	498.1
27.5°	3829.0	3723.3	2613.0	1071.3	467.5	453.6	470.3	487.0	489.8	489.8	487.0
30°	4090.6	3915.3	2432.1	726.3	411.8	423.0	450.8	470.3	484.2	484.2	481.4
32.5°	4421.7	4115.6	2178.9	495.3	381.2	386.8	409.1	448.0	478.6	481.4	473.1
35°	4880.9	4357.7	1914.5	395.1	359.0	361.8	375.7	406.3	459.1	475.8	473.1
37.5°	5365.1	4633.2	1586.1	356.2	342.3	339.5	347.8	372.9	420.2	461.9	464.7
40°	5879.9	4922.6	1241.1	336.7	328.4	322.8	325.6	336.7	372.9	425.8	436.9
42.5°	6364.1	5184.2	932.2	317.2	314.4	308.9	308.9	311.7	331.1	367.3	372.9
45°	6887.2	5398.5	709.6	303.3	295.0	297.8	286.6	281.1	295.0	297.8	295.0
47.5°	7377.0	5612.7	567.7	286.6	278.3	278.3	264.4	253.2	253.2	228.2	225.4
50°	7836.1	5729.6	453.6	264.4	261.6	258.8	239.3	219.8	203.1	172.5	167.0
52.5°	8217.3	5724.0	350.6	236.5	244.9	236.5	205.9	178.1	153.0	125.2	119.7
55°	8331.4	5456.9	264.4	194.8	208.7	197.6	164.2	139.1	111.3	89.0	86.3
57.5°	8234.0	5050.6	200.4	150.3	161.4	150.3	125.2	103.0	77.9	61.2	55.7
60°	7908.5	4574.8	155.8	116.9	122.4	114.1	94.6	77.9	55.7	39.0	33.4
62.5°	7290.7	3979.3	119.7	91.8	89.0	89.0	72.4	58.4	39.0	22.3	19.5
65°	5982.8	3102.7	91.8	64.0	64.0	64.0	55.7	41.7	25.0	11.1	5.6
67.5°	3756.7	1806.0	75.1	50.1	47.3	47.3	39.0	27.8	13.9	2.8	0.0
70°	1413.6	662.3	58.4	39.0	36.2	36.2	27.8	16.7	8.3	0.0	0.0
72°	487.0	253.2	47.3	27.8	27.8	25.0	19.5	13.9	5.6	0.0	0.0
72.5°	400.7	203.1	44.5	27.8	25.0	25.0	19.5	13.9	5.6	0.0	0.0
75°	144.7	83.5	30.6	19.5	16.7	16.7	13.9	8.3	2.8	0.0	0.0
77.5°	72.4	52.9	25.0	16.7	13.9	8.3	8.3	5.6	2.8	0.0	0.0
80°	44.5	33.4	13.9	11.1	8.3	5.6	2.8	2.8	0.0	0.0	0.0
82.5°	30.6	19.5	8.3	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.5	8.3	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	5.6	2.8	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)