

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: P483190

Luminaire Tested: **IFLD-S-SA3D-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

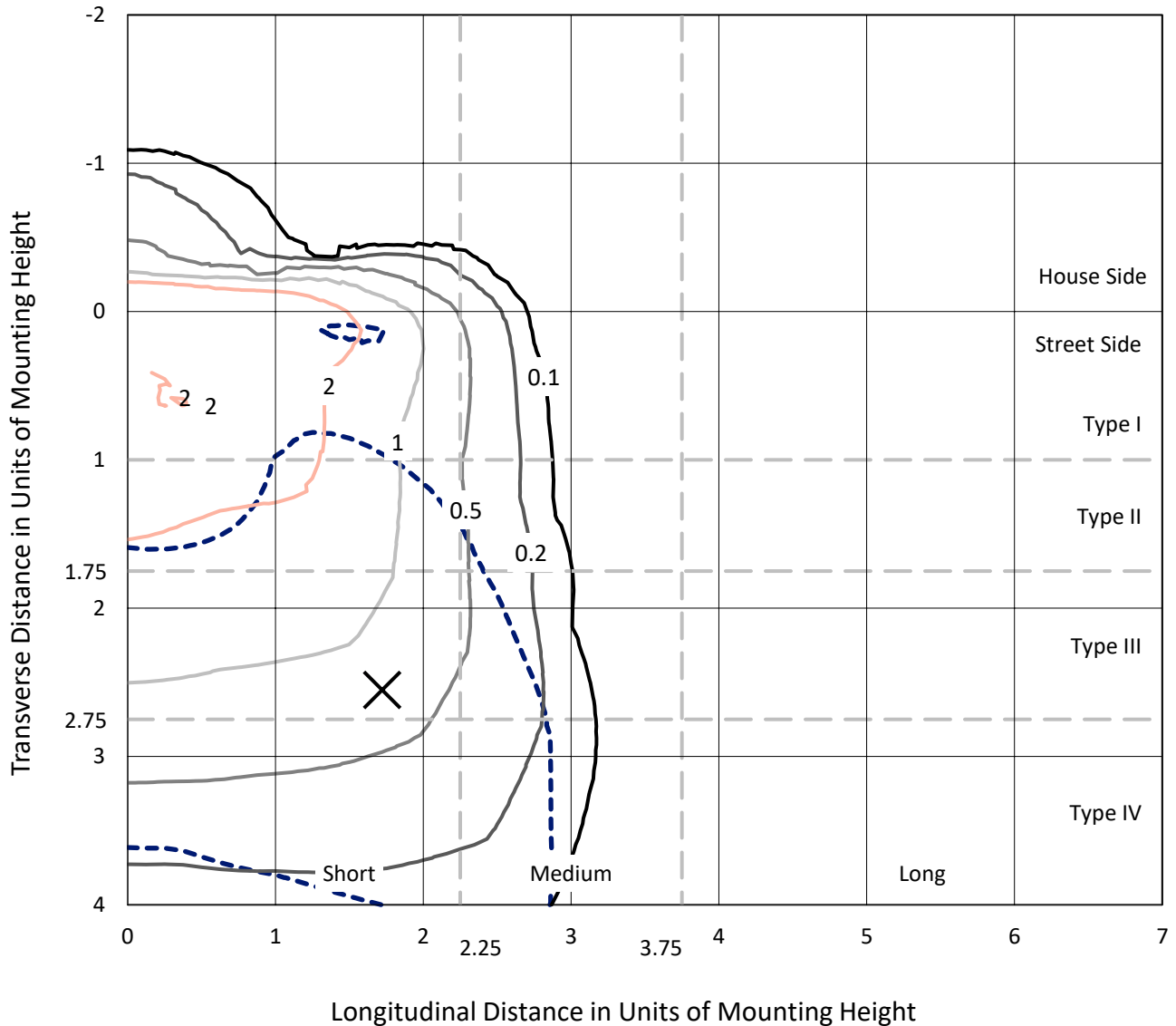
Lumens per Lamp: N/A
Luminaire Lumens: 16622.1 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

REPORT NUMBER: P483190
 CATALOG NUMBER: IFLD-S-SA3D-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

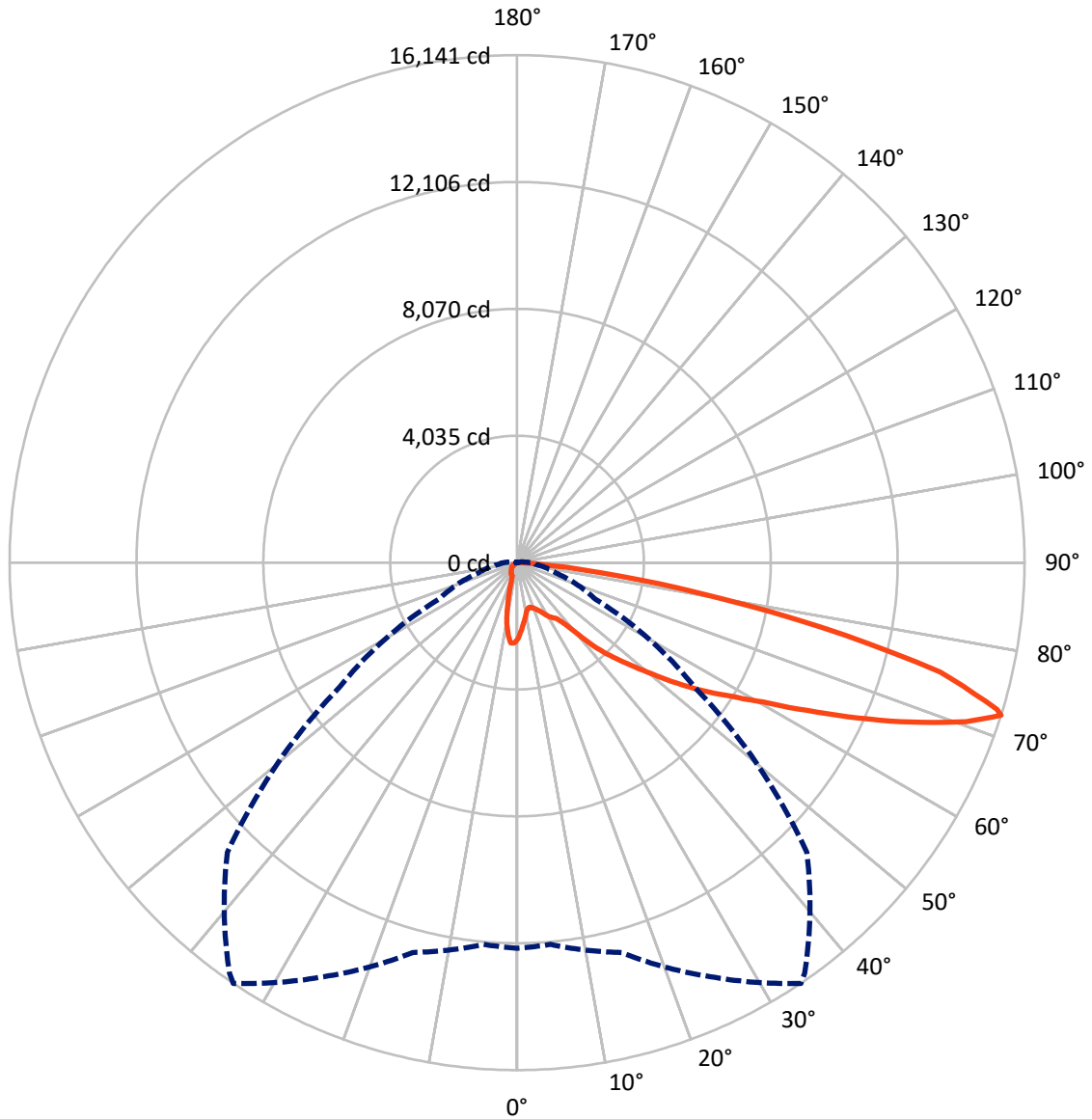
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483190
CATALOG NUMBER: IFLD-S-SA3D-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483190
 CATALOG NUMBER: IFLD-S-SA3D-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1701.7	0.0	1701.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	14920.4	0.0	14920.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	16622.1	0.0	16622.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.3
10°-20°	477.9	2.9
20°-30°	721.4	4.3
30°-40°	1170.7	7.0
40°-50°	2201.4	13.2
50°-60°	3599.3	21.7
60°-70°	4784.8	28.8
70°-80°	3204.3	19.3
80°-90°	251.1	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°	16622.1	100.0
0°-180°	16622.1	100.0



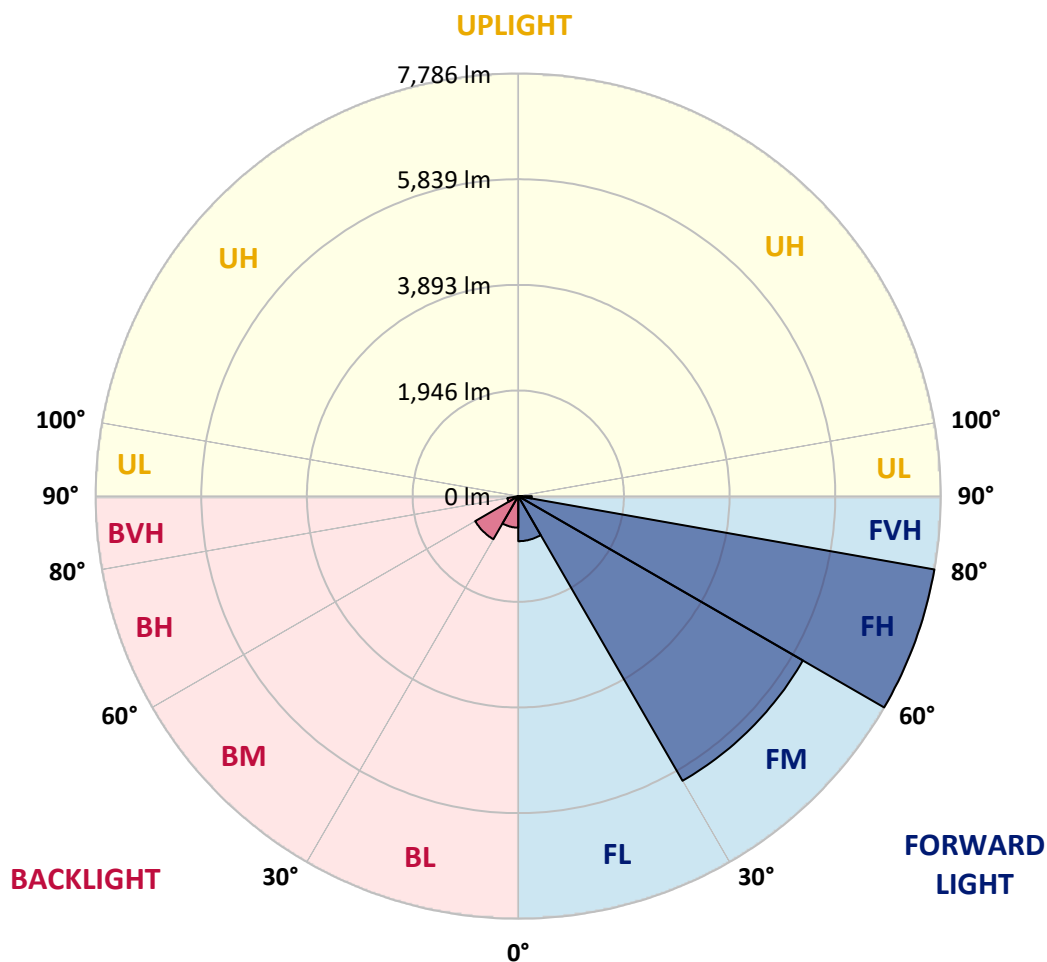
REPORT NUMBER: P483190
 CATALOG NUMBER: IFLD-S-SA3D-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.8	5.0			
FM (30°-60°)	6055.4	36.4			
FH (60°-80°)	7785.7	46.8			G4/12000
FVH (80°-90°)	249.5	1.5			G3/500
BL (0°-30°)	580.6	3.5	B2/1000		
BM (30°-60°)	916.0	5.5	B1/1000		
BH (60°-80°)	203.5	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





REPORT NUMBER: P483190

CATALOG NUMBER: IFLD-S-SA3D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2150.7	2145.9	2160.3	2184.3	2208.4	2198.7	2244.4	2292.5	2326.1	2371.8	2427.0
5°	1879.1	1891.2	1905.6	1953.6	1984.9	1992.1	2076.2	2138.7	2242.0	2347.7	2446.2
7.5°	1631.6	1646.1	1674.9	1727.8	1792.6	1809.5	1893.6	2018.5	2153.1	2292.5	2453.5
10°	1451.4	1465.8	1497.1	1530.7	1617.2	1617.2	1732.6	1905.6	2081.0	2244.4	2455.9
12.5°	1413.0	1420.2	1417.8	1444.2	1499.5	1511.5	1624.4	1814.3	2018.5	2227.6	2494.3
15°	1458.6	1463.4	1439.4	1425.0	1473.0	1485.1	1590.8	1759.0	1977.7	2237.2	2556.8
17.5°	1549.9	1533.1	1485.1	1463.4	1504.3	1511.5	1610.0	1756.6	1972.9	2263.6	2628.9
20°	1602.8	1622.0	1537.9	1497.1	1554.7	1564.3	1670.1	1795.0	1996.9	2309.3	2729.8
22.5°	1696.5	1706.1	1593.2	1566.8	1622.0	1622.0	1742.2	1871.9	2054.6	2383.8	2850.0
25°	1828.7	1816.7	1684.5	1658.1	1710.9	1732.6	1852.7	1994.5	2143.5	2453.5	2960.5
27.5°	1932.0	1939.2	1831.1	1761.4	1850.3	1864.7	1994.5	2126.6	2210.8	2511.1	3095.1
30°	2085.8	2071.4	1956.0	1876.7	1987.3	1989.7	2114.6	2251.6	2340.5	2614.5	3296.9
32.5°	2268.4	2239.6	2107.4	1994.5	2083.4	2105.0	2232.4	2431.8	2542.4	2809.1	3609.3
35°	2655.3	2585.6	2369.4	2193.9	2201.1	2210.8	2407.8	2693.8	2821.1	3056.6	4027.4
37.5°	3220.0	3191.2	2946.1	2612.1	2484.7	2455.9	2676.9	3039.8	3198.4	3383.4	4570.5
40°	3779.9	3739.1	3510.8	3258.5	3027.8	2970.1	3080.6	3498.8	3642.9	3837.6	5128.0
42.5°	4402.3	4330.2	4061.1	3856.8	3712.6	3650.1	3606.9	4075.5	4238.9	4371.0	5673.5
45°	5031.9	4914.1	4524.8	4368.6	4291.7	4258.1	4253.3	4801.2	4899.7	4926.1	6279.0
47.5°	5584.6	5457.2	5104.0	4928.5	4870.9	4861.3	5130.4	5637.4	5560.5	5490.8	6954.3
50°	6009.9	5928.2	5673.5	5611.0	5567.7	5550.9	6180.5	6497.7	6142.1	6019.5	7547.8
52.5°	6668.3	6485.7	6197.3	6218.9	6370.3	6372.7	7245.0	7314.7	6625.1	6382.4	8107.7
55°	7194.6	7074.4	6838.9	6807.7	7206.6	7249.8	8199.0	7934.7	6894.2	6728.4	8314.4
57.5°	7814.5	7759.3	7588.7	7593.5	8011.6	8102.9	9047.3	8458.5	7117.7	6951.9	8345.6
60°	8710.9	8552.3	8463.3	8504.2	8996.8	9085.7	9869.1	8835.8	7225.8	7098.4	8268.7
62.5°	9700.9	9515.9	9419.7	9628.8	10347.3	10361.7	10493.9	9169.8	7158.5	7136.9	7773.7
65°	10892.8	10710.1	10633.2	11053.8	11906.8	11854.0	11371.0	9311.6	6944.7	6750.0	6473.7
67.5°	12079.9	11969.3	11810.7	12481.2	13543.3	13543.3	12281.7	9258.7	6384.8	5418.8	4234.1
70°	12642.2	12719.0	12971.4	14023.9	15150.9	15035.5	13180.4	8650.8	4753.1	2910.0	1665.3
72°	12267.3	12188.0	12839.2	14528.5	16140.9	15951.1	13029.0	6877.4	2746.6	1276.0	579.1
72.5°	11623.3	11697.8	12594.1	14458.8	15955.9	16112.1	12659.0	6343.9	2258.8	1016.5	437.3
75°	7127.3	7254.6	9400.5	12276.9	13903.7	13728.3	9792.2	3023.0	867.5	432.5	156.2
77.5°	2602.4	2708.2	4560.9	7725.6	9888.3	9777.8	5666.3	1074.1	471.0	322.0	79.3
80°	677.6	732.9	1549.9	3563.6	5815.2	5822.5	2371.8	430.1	319.6	264.3	48.1
82.5°	134.6	149.0	475.8	1386.5	2717.8	2681.7	749.7	230.7	240.3	216.3	33.6
85°	16.8	21.6	100.9	471.0	879.5	788.2	185.0	115.3	177.8	168.2	21.6
87.5°	2.4	2.4	24.0	108.1	185.0	180.2	38.4	36.0	79.3	103.3	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483190

CATALOG NUMBER: IFLD-S-SA3D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2458.3	2467.9	2501.5	2530.4	2564.0	2573.6	2559.2	2583.2	2549.6	2568.8	2573.6
5°	2463.1	2518.3	2580.8	2621.7	2612.1	2588.0	2568.8	2503.9	2458.3	2441.4	2477.5
7.5°	2496.7	2559.2	2626.5	2626.5	2573.6	2448.7	2328.5	2213.2	2117.0	2069.0	2109.8
10°	2540.0	2604.8	2674.5	2583.2	2386.2	2157.9	1987.3	1771.0	1624.4	1547.5	1554.7
12.5°	2597.6	2689.0	2713.0	2501.5	2174.7	1835.9	1525.9	1225.5	1086.2	975.6	978.0
15°	2672.1	2761.0	2689.0	2323.7	1905.6	1405.8	1033.3	747.3	636.8	579.1	579.1
17.5°	2770.7	2837.9	2681.7	2160.3	1542.7	961.2	634.4	504.6	480.6	471.0	471.0
20°	2886.0	2936.5	2612.1	1905.6	1146.2	617.6	466.2	451.8	454.2	449.4	449.4
22.5°	3015.8	3032.6	2532.8	1610.0	776.2	456.6	434.9	437.3	439.7	434.9	437.3
25°	3152.7	3107.1	2417.4	1264.0	516.6	415.7	420.5	425.3	427.7	430.1	430.1
27.5°	3306.5	3215.2	2256.4	925.2	403.7	391.7	406.1	420.5	422.9	422.9	420.5
30°	3532.4	3381.0	2100.2	627.2	355.6	365.3	389.3	406.1	418.1	418.1	415.7
32.5°	3818.4	3554.0	1881.5	427.7	329.2	334.0	353.2	386.9	413.3	415.7	408.5
35°	4214.9	3763.1	1653.3	341.2	310.0	312.4	324.4	350.8	396.5	410.9	408.5
37.5°	4633.0	4001.0	1369.7	307.6	295.6	293.2	300.4	322.0	362.9	398.9	401.3
40°	5077.5	4250.9	1071.7	290.8	283.6	278.7	281.2	290.8	322.0	367.7	377.3
42.5°	5495.6	4476.8	805.0	273.9	271.5	266.7	266.7	269.1	286.0	317.2	322.0
45°	5947.4	4661.8	612.8	261.9	254.7	257.1	247.5	242.7	254.7	257.1	254.7
47.5°	6370.3	4846.8	490.2	247.5	240.3	240.3	228.3	218.7	218.7	197.0	194.6
50°	6766.8	4947.8	391.7	228.3	225.9	223.5	206.7	189.8	175.4	149.0	144.2
52.5°	7096.0	4943.0	302.8	204.3	211.5	204.3	177.8	153.8	132.2	108.1	103.3
55°	7194.6	4712.3	228.3	168.2	180.2	170.6	141.8	120.1	96.1	76.9	74.5
57.5°	7110.5	4361.4	173.0	129.8	139.4	129.8	108.1	88.9	67.3	52.9	48.1
60°	6829.3	3950.5	134.6	100.9	105.7	98.5	81.7	67.3	48.1	33.6	28.8
62.5°	6295.8	3436.3	103.3	79.3	76.9	76.9	62.5	50.5	33.6	19.2	16.8
65°	5166.4	2679.3	79.3	55.3	55.3	55.3	48.1	36.0	21.6	9.6	4.8
67.5°	3244.0	1559.5	64.9	43.3	40.9	40.9	33.6	24.0	12.0	2.4	0.0
70°	1220.7	571.9	50.5	33.6	31.2	31.2	24.0	14.4	7.2	0.0	0.0
72°	420.5	218.7	40.9	24.0	24.0	21.6	16.8	12.0	4.8	0.0	0.0
72.5°	346.0	175.4	38.4	24.0	21.6	21.6	16.8	12.0	4.8	0.0	0.0
75°	125.0	72.1	26.4	16.8	14.4	14.4	12.0	7.2	2.4	0.0	0.0
77.5°	62.5	45.7	21.6	14.4	12.0	7.2	7.2	4.8	2.4	0.0	0.0
80°	38.4	28.8	12.0	9.6	7.2	4.8	2.4	2.4	0.0	0.0	0.0
82.5°	26.4	16.8	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.8	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	4.8	2.4	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)