

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: P481540

Luminaire Tested: **IFLD-L-SA8A-722-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481540
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

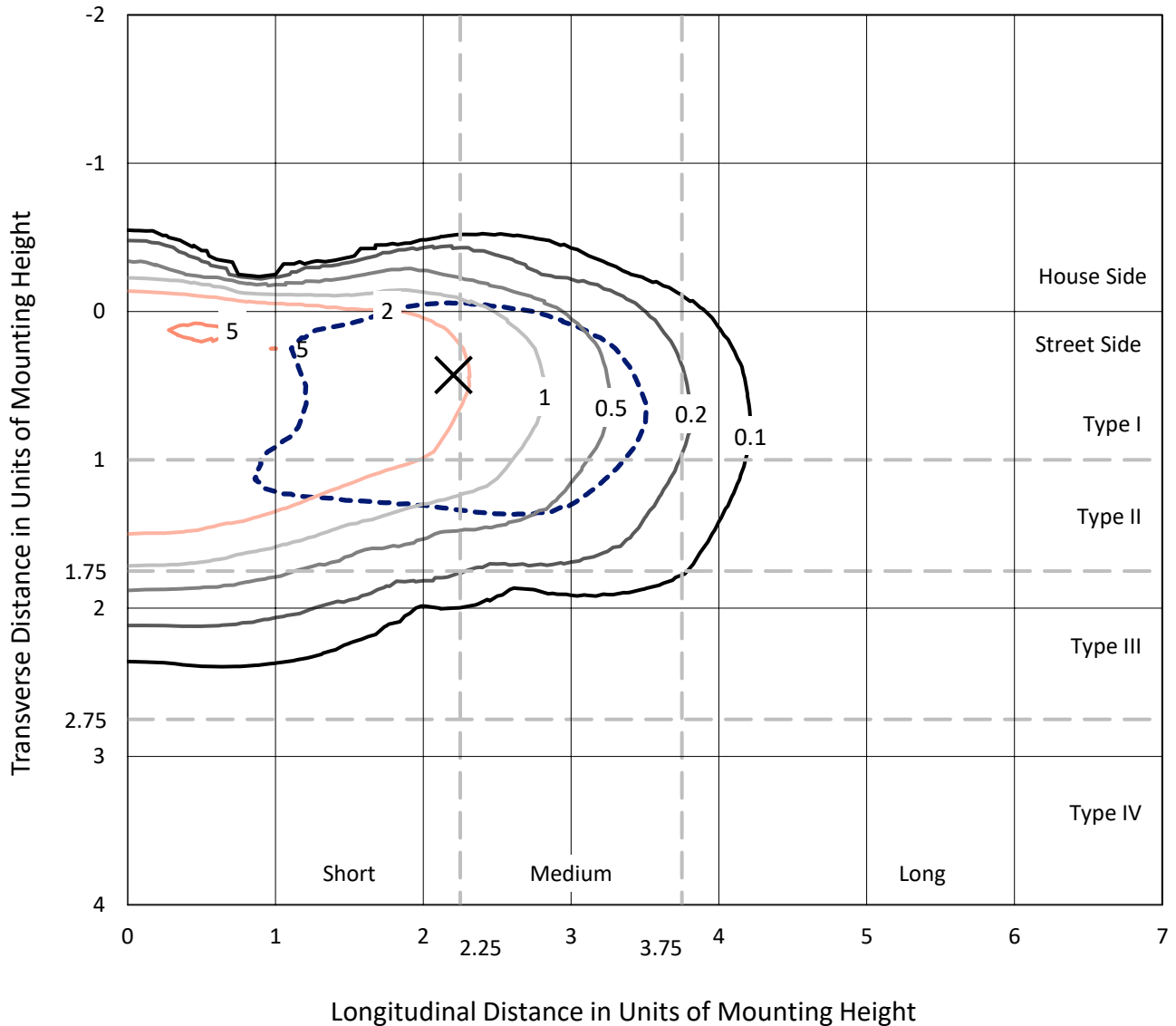
Lumens per Lamp: N/A
Luminaire Lumens: 18171.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
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

REPORT NUMBER: P481540
 CATALOG NUMBER: IFLD-L-SA8A-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

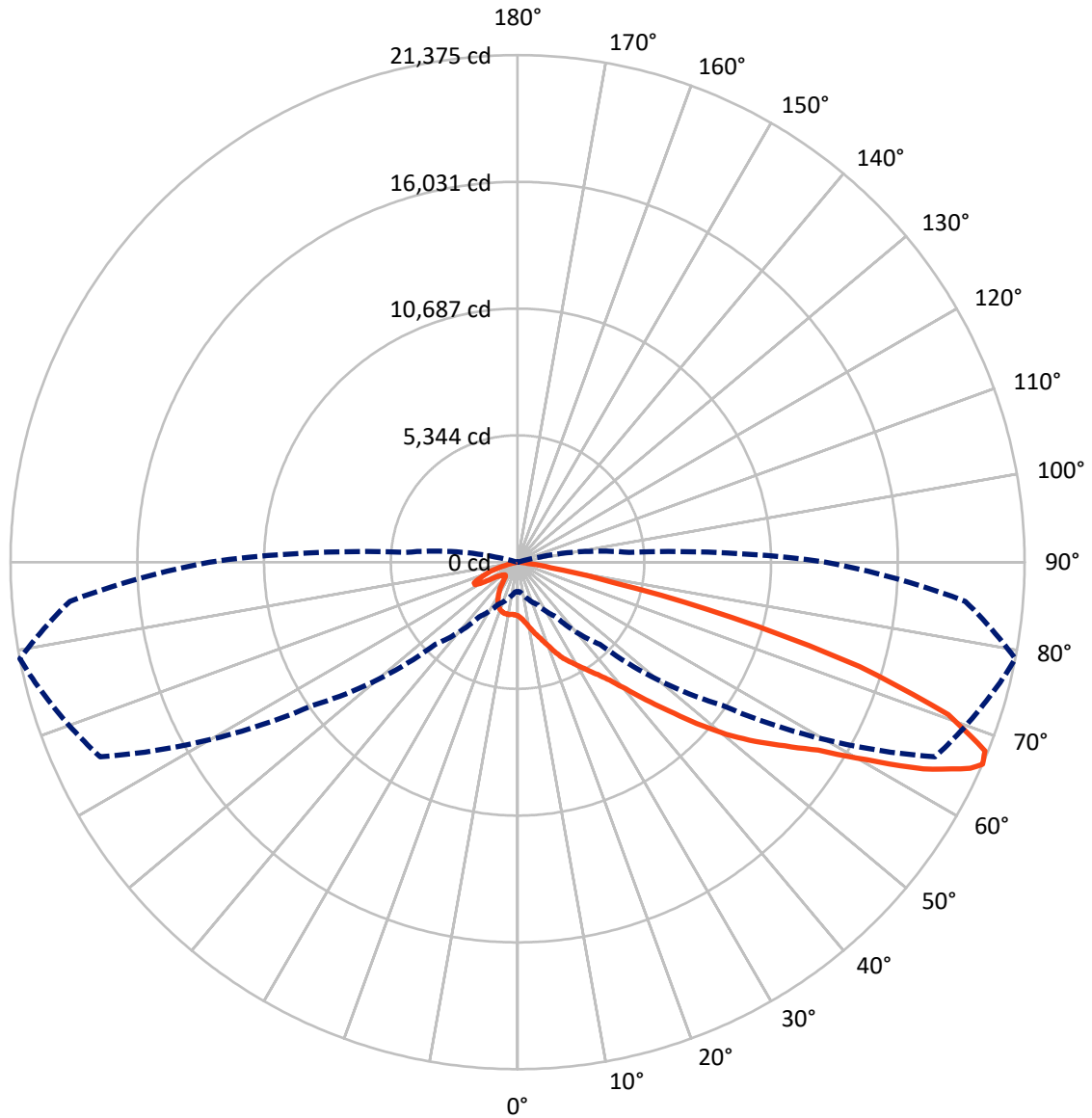
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481540
CATALOG NUMBER: IFLD-L-SA8A-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481540
 CATALOG NUMBER: IFLD-L-SA8A-722-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.4	0.0	1364.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	16806.9	0.0	16806.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	18171.3	0.0	18171.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	1.2
10°-20°	588.4	3.2
20°-30°	977.5	5.4
30°-40°	1679.0	9.2
40°-50°	3041.7	16.7
50°-60°	4808.0	26.5
60°-70°	4892.5	26.9
70°-80°	1865.8	10.3
80°-90°	104.6	0.6
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°	18171.3	100.0
0°-180°	18171.3	100.0



REPORT NUMBER: P481540

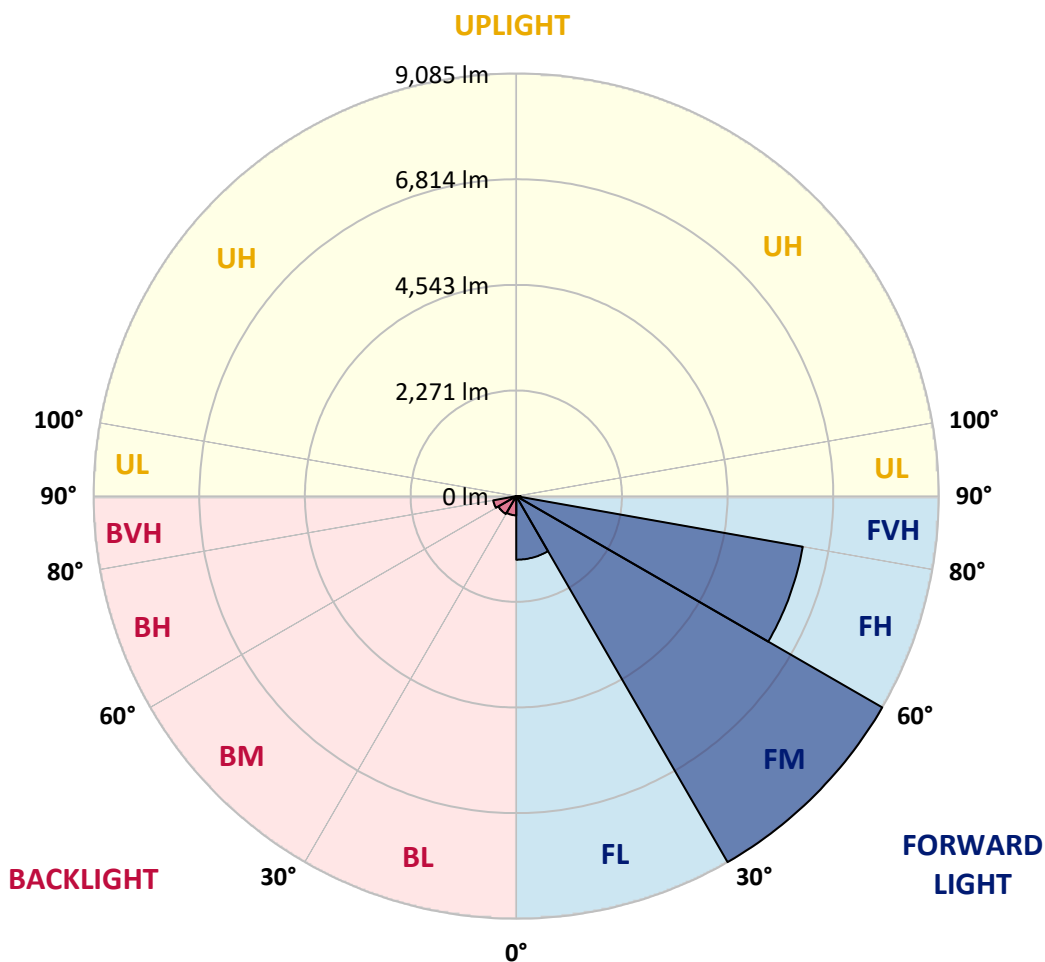
CATALOG NUMBER: IFLD-L-SA8A-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.1	7.5			
FM (30°-60°)	9085.3	50.0			
FH (60°-80°)	6255.3	34.4			G3/7500
FVH (80°-90°)	99.3	0.5			G1/100
BL (0°-30°)	412.6	2.3	B1/500		
BM (30°-60°)	443.5	2.4	B1/1000		
BH (60°-80°)	503.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.3	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 II Short





REPORT NUMBER: P481540

CATALOG NUMBER: IFLD-L-SA8A-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7
2.5°	2560.5	2557.7	2546.5	2526.9	2501.7	2493.3	2456.8	2406.4	2378.4	2347.6	2333.6
5°	2737.0	2723.0	2756.6	2742.6	2748.2	2680.9	2636.1	2599.7	2493.3	2451.2	2384.0
7.5°	2776.2	2790.2	2787.4	2809.8	2832.2	2857.4	2826.6	2773.4	2666.9	2605.3	2532.5
10°	2776.2	2770.6	2793.0	2823.8	2888.2	2944.3	3028.3	2958.3	2877.0	2804.2	2672.5
12.5°	2725.8	2717.4	2739.8	2804.2	2919.1	3033.9	3126.4	3193.6	3078.7	3019.9	2849.0
15°	2571.7	2563.3	2655.7	2770.6	2921.9	3109.6	3302.9	3412.1	3333.7	3241.2	3050.7
17.5°	2381.2	2392.4	2490.4	2680.9	2921.9	3146.0	3392.5	3630.6	3619.4	3501.8	3302.9
20°	2316.8	2325.2	2423.2	2560.5	2835.0	3171.2	3532.6	3868.7	3936.0	3795.9	3535.4
22.5°	2440.0	2431.6	2440.0	2524.1	2776.2	3148.8	3625.0	4140.5	4260.9	4151.7	3840.7
25°	2860.2	2854.6	2784.6	2655.7	2742.6	3098.4	3672.6	4319.8	4597.1	4496.3	4087.3
27.5°	3476.5	3454.1	3344.9	3075.9	2899.5	3129.2	3751.1	4493.5	4891.3	4776.4	4308.6
30°	4137.7	4084.4	3941.6	3605.4	3305.7	3244.0	3795.9	4622.3	5219.0	5073.3	4501.9
32.5°	4594.3	4664.3	4619.5	4277.7	3818.3	3510.2	3868.7	4784.8	5521.6	5426.3	4832.4
35°	5300.3	5381.5	5193.8	4891.3	4429.0	3933.2	4022.8	4916.5	5986.6	5826.9	5140.6
37.5°	6191.1	6252.7	6118.3	5544.0	5056.5	4454.2	4339.4	5191.0	6387.2	6311.6	5535.6
40°	6639.3	6936.3	6745.8	6227.5	5703.7	5182.6	4863.2	5513.2	7084.8	7023.1	6081.9
42.5°	7258.4	7406.9	7308.9	6925.1	6378.8	5961.4	5510.4	6140.7	7930.8	7930.8	6821.4
45°	7914.0	7919.6	7914.0	7600.2	7115.6	6899.9	6384.4	6927.9	8841.2	8942.1	7706.7
47.5°	8451.8	8619.9	8605.9	8418.2	8042.8	7961.6	7258.4	7824.3	9984.2	10160.7	8569.5
50°	8729.2	8916.9	8972.9	9071.0	9054.1	9225.0	8213.7	8863.6	10970.3	11404.5	9678.9
52.5°	8653.5	8667.5	9012.1	9398.7	10015.0	10494.1	9365.1	10043.0	12124.5	12553.1	10536.1
55°	8034.4	7981.2	8690.0	9132.6	10407.2	11270.1	10959.1	11513.8	13023.7	13676.5	11421.3
57.5°	6675.7	6689.8	7345.3	8244.5	10115.9	11578.2	12662.4	13435.5	14284.4	14942.7	12665.2
60°	4608.3	4591.5	5325.5	6364.8	8404.2	11003.9	13642.8	15926.0	15970.8	16903.7	14897.9
62.5°	2591.3	2596.9	3154.4	4042.4	5880.2	8992.5	13595.2	18570.5	18380.0	19198.0	17435.9
65°	1467.9	1504.4	1888.1	2395.2	3521.4	6037.0	11693.1	19623.8	20237.4	20965.7	18976.7
66°	1241.0	1266.2	1594.0	1977.8	2809.8	4896.9	10524.9	19419.3	20820.0	21374.7	18945.9
67.5°	960.9	994.5	1269.0	1568.8	2061.8	3389.7	8471.5	18402.4	20926.5	21251.5	18410.8
70°	658.3	680.7	890.8	1190.6	1409.1	1734.1	5064.9	15214.4	18987.9	19262.5	16001.6
72.5°	462.2	473.4	624.7	902.1	1084.1	991.7	2512.9	10824.6	14530.9	15066.0	12446.6
75°	333.4	344.6	428.6	647.1	846.0	649.9	1151.4	6913.9	8911.3	9331.5	7496.6
77.5°	240.9	254.9	291.3	417.4	613.5	456.6	565.9	3611.0	4202.1	4129.3	3224.4
80°	145.7	159.7	215.7	268.9	448.2	322.2	311.0	1507.2	1490.3	1414.7	1014.1
82.5°	67.2	78.4	114.9	182.1	313.8	224.1	148.5	537.9	470.6	431.4	285.7
85°	19.6	25.2	67.2	137.3	159.7	109.3	89.6	184.9	193.3	165.3	95.2
87.5°	0.0	2.8	30.8	33.6	47.6	36.4	33.6	47.6	89.6	72.8	30.8
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: P481540

CATALOG NUMBER: IFLD-L-SA8A-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7	2260.7
2.5°	2283.1	2263.5	2215.9	2143.1	2078.6	2045.0	1997.4	1955.4	1933.0	1930.2	1927.4
5°	2339.2	2285.9	2171.1	2039.4	1941.4	1834.9	1762.1	1708.9	1658.4	1610.8	1638.8
7.5°	2414.8	2330.8	2143.1	1972.2	1759.3	1622.0	1493.1	1417.5	1372.7	1330.7	1325.1
10°	2532.5	2426.0	2123.5	1815.3	1571.6	1369.9	1238.2	1129.0	1067.3	994.5	1022.5
12.5°	2692.2	2501.7	2050.6	1672.4	1358.7	1145.8	958.1	781.6	683.5	607.9	610.7
15°	2851.8	2602.5	1983.4	1498.8	1165.4	885.2	610.7	490.2	462.2	445.4	451.0
17.5°	3008.7	2683.7	1879.7	1322.3	944.1	563.1	445.4	420.2	406.2	389.4	389.4
20°	3199.2	2737.0	1750.9	1159.8	649.9	417.4	381.0	364.2	341.8	319.4	322.2
22.5°	3384.1	2781.8	1602.4	952.5	437.0	361.4	319.4	296.9	277.3	254.9	254.9
25°	3569.0	2795.8	1409.1	683.5	353.0	288.5	249.3	218.5	198.9	179.3	182.1
27.5°	3695.1	2709.0	1227.0	437.0	282.9	218.5	173.7	148.5	131.7	112.1	112.1
30°	3767.9	2549.3	1030.9	308.2	212.9	148.5	103.7	78.4	61.6	47.6	44.8
32.5°	3840.7	2420.4	809.6	235.3	140.1	78.4	39.2	14.0	0.0	0.0	0.0
35°	3986.4	2274.7	543.5	131.7	47.6	2.8	0.0	0.0	0.0	0.0	0.0
37.5°	4078.8	2073.0	249.3	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4311.4	1972.2	61.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4689.6	1902.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5104.2	1874.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5656.0	1949.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6238.7	2154.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6877.5	2347.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7434.9	2580.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8460.2	3129.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10300.8	4207.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12373.8	5008.9	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13133.0	4989.3	53.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12998.5	4714.8	53.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12301.0	4188.1	47.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10564.1	3459.7	47.6	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8054.0	2695.0	44.8	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	4860.4	1434.3	36.4	14.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1935.8	504.3	28.0	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	523.9	151.3	16.8	11.2	8.4	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	137.3	56.0	14.0	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
85°	53.2	22.4	11.2	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	8.4	5.6	5.6	2.8	2.8	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)