

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: P481901

Luminaire Tested: **IFLD-S-SA3B-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

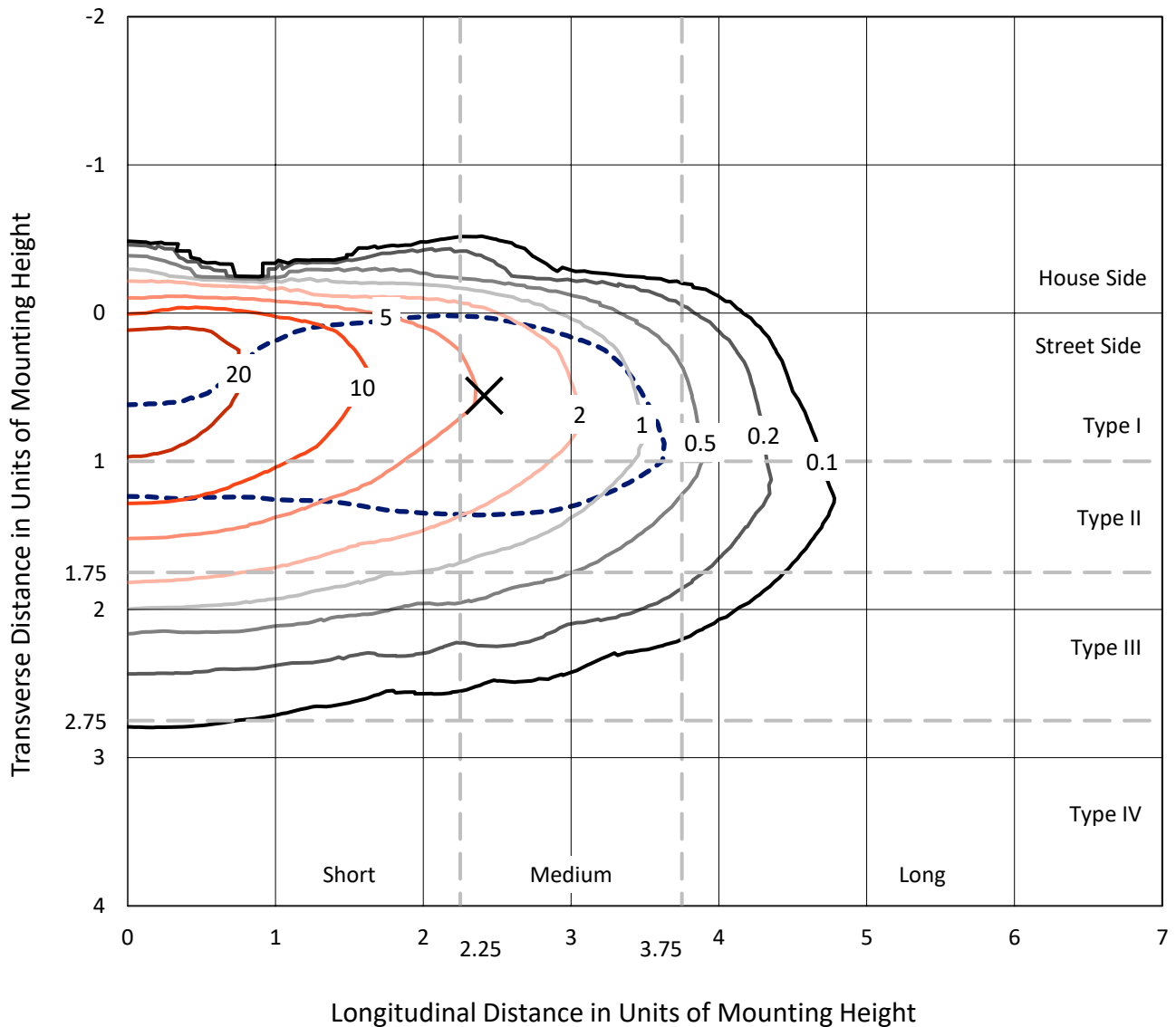
Lumens per Lamp: N/A
Luminaire Lumens: 9854.2 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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: P481901
 CATALOG NUMBER: IFLD-S-SA3B-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

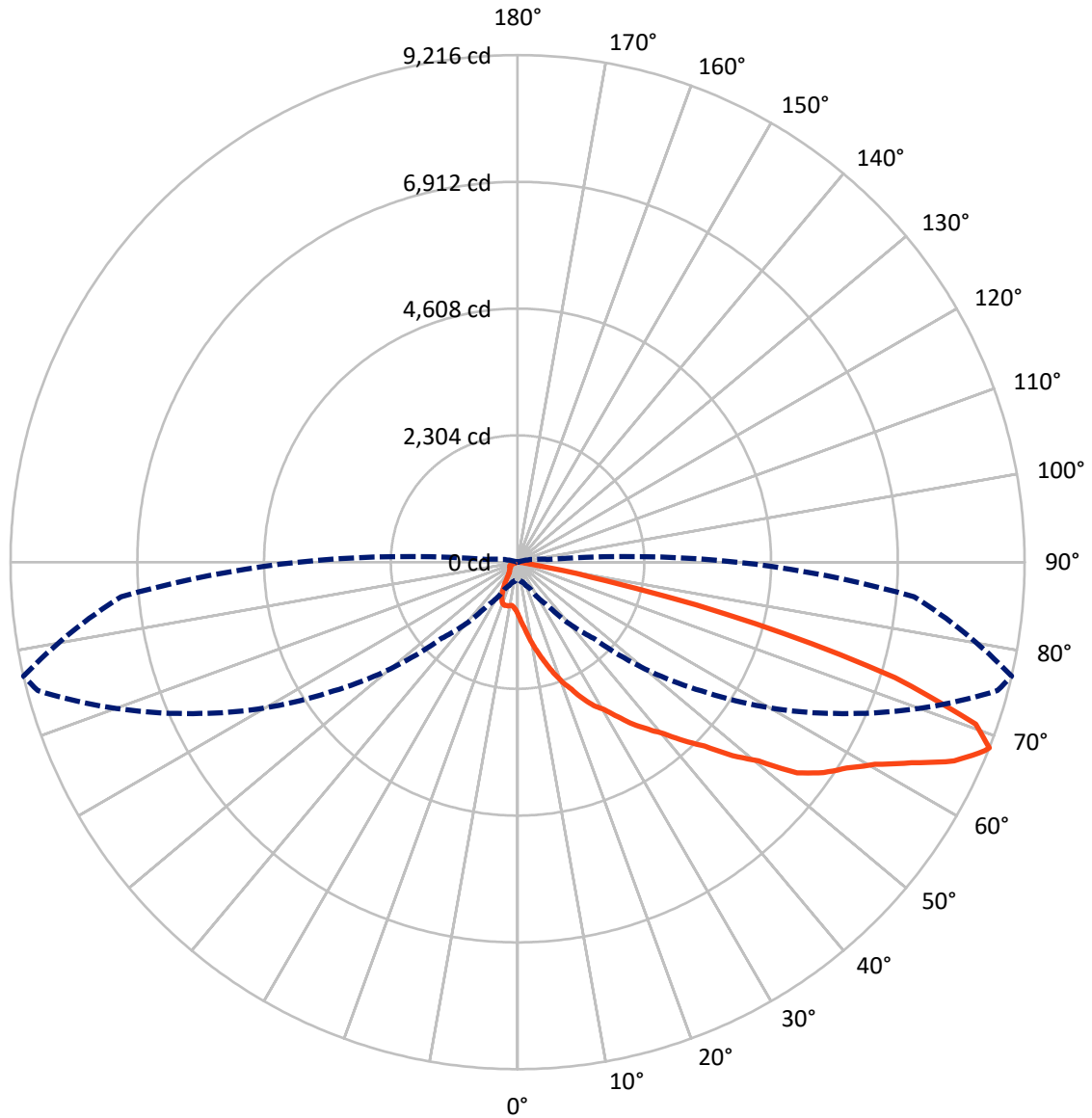
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P481901
CATALOG NUMBER: IFLD-S-SA3B-722-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P481901
 CATALOG NUMBER: IFLD-S-SA3B-722-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	446.9	0.0	446.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	9407.4	0.0	9407.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	9854.2	0.0	9854.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.1
10°-20°	406.5	4.1
20°-30°	787.9	8.0
30°-40°	1373.6	13.9
40°-50°	2011.7	20.4
50°-60°	2363.5	24.0
60°-70°	1995.7	20.3
70°-80°	773.6	7.9
80°-90°	31.5	0.3
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°	9854.2	100.0
0°-180°	9854.2	100.0



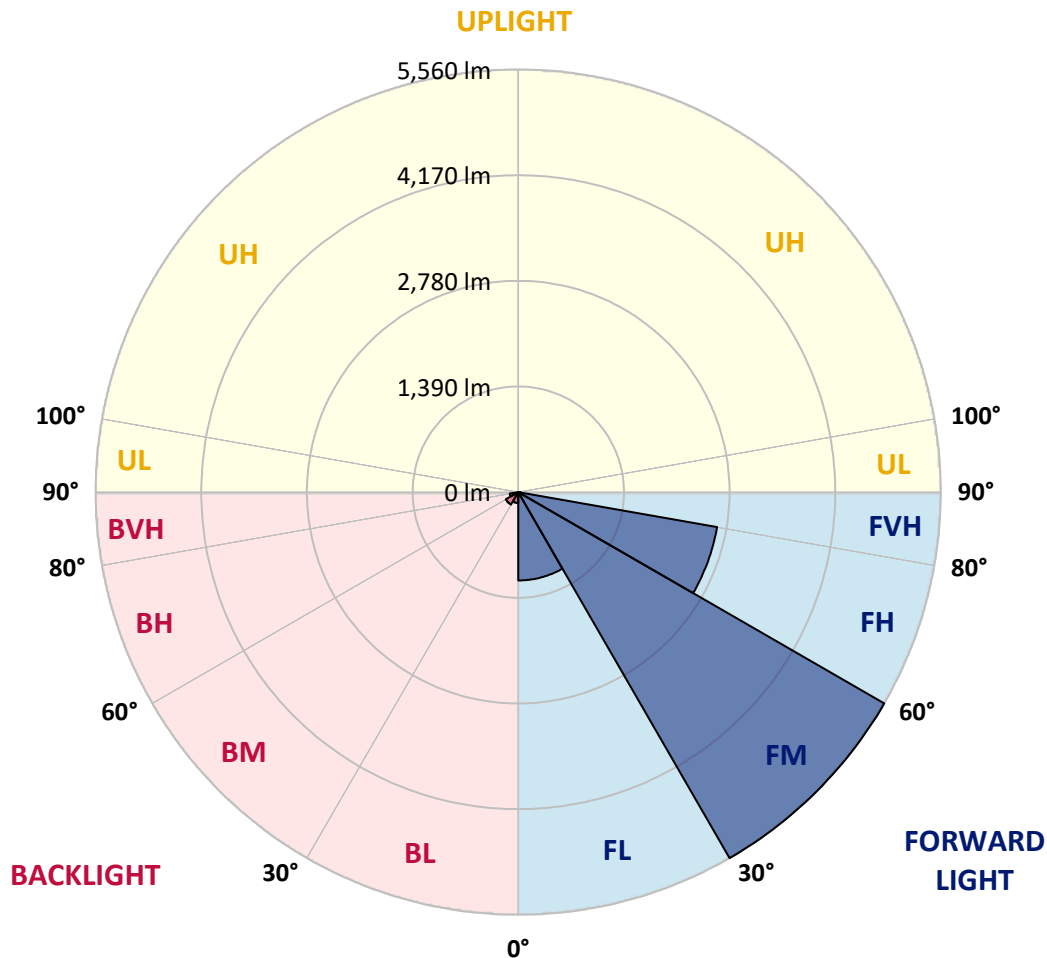
REPORT NUMBER: P481901
 CATALOG NUMBER: IFLD-S-SA3B-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.9	11.8			
FM (30°-60°)	5559.9	56.4			
FH (60°-80°)	2656.5	27.0			G2/5000
FVH (80°-90°)	29.0	0.3			G1/100
BL (0°-30°)	142.8	1.4	B1/500		
BM (30°-60°)	188.8	1.9	B0/220		
BH (60°-80°)	112.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P481901

CATALOG NUMBER: IFLD-S-SA3B-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	1433.7	1406.5	1378.0	1369.9	1316.9	1257.2	1201.5	1147.2	1056.2	1057.6	995.1
5°	1847.7	1813.8	1790.7	1785.3	1702.5	1599.3	1515.1	1361.7	1211.0	1177.1	1063.0
7.5°	2188.5	2177.7	2143.7	2115.2	2054.1	1927.8	1828.7	1608.8	1379.4	1341.3	1145.8
10°	2394.9	2411.2	2426.1	2389.4	2341.9	2251.0	2115.2	1877.6	1570.8	1523.3	1253.1
12.5°	2614.8	2587.7	2597.2	2627.0	2564.6	2544.2	2375.9	2154.6	1794.8	1703.8	1388.9
15°	2671.8	2682.7	2705.8	2792.7	2834.7	2776.4	2631.1	2378.6	2027.0	1900.7	1515.1
17.5°	2709.8	2704.4	2732.9	2863.3	2927.1	2982.7	2891.8	2628.4	2229.2	2116.6	1672.6
20°	2757.4	2727.5	2789.9	2872.8	3020.7	3137.5	3133.4	2879.5	2441.0	2321.6	1828.7
22.5°	2933.9	2910.8	2961.0	2969.2	3072.3	3235.2	3274.6	3084.6	2658.3	2511.6	1997.1
25°	3259.7	3301.8	3242.0	3190.4	3221.7	3328.9	3357.4	3266.5	2876.8	2742.4	2165.4
27.5°	3736.2	3730.8	3612.7	3546.1	3471.5	3457.9	3478.3	3436.2	3049.3	2952.9	2303.9
30°	4248.0	4203.2	4094.6	3934.4	3770.2	3668.3	3639.8	3596.4	3251.5	3111.7	2441.0
32.5°	4655.3	4679.8	4558.9	4349.9	4077.0	3939.9	3802.7	3755.2	3474.2	3350.6	2598.5
35°	5030.0	4997.5	4901.1	4724.6	4480.2	4258.9	4044.4	3942.6	3741.6	3619.5	2772.3
37.5°	5307.0	5347.7	5164.5	4996.1	4753.1	4569.8	4359.4	4136.7	4017.2	3854.3	2984.1
40°	5569.0	5505.2	5381.7	5226.9	5001.5	4861.7	4723.2	4375.7	4310.5	4100.1	3223.0
42.5°	5522.9	5526.9	5459.1	5334.2	5171.2	5091.1	5043.6	4666.2	4576.6	4442.2	3456.5
45°	5334.2	5350.4	5373.5	5312.4	5326.0	5245.9	5373.5	5000.2	4911.9	4769.4	3725.4
47.5°	5126.4	5153.6	5148.2	5259.5	5385.7	5412.9	5731.9	5370.8	5332.8	5254.1	4097.3
50°	4781.6	4792.5	4897.0	5099.3	5271.7	5555.5	6000.8	5775.4	5833.8	5679.0	4539.9
52.5°	4192.4	4231.8	4500.6	4789.7	5137.3	5627.4	6182.7	6376.8	6524.8	6366.0	4964.9
55°	3447.0	3501.3	3766.1	4307.8	4816.9	5518.8	6348.3	6694.5	6994.5	6754.2	5222.8
57.5°	2773.7	2779.1	3016.7	3576.0	4362.1	5305.6	6432.5	6849.3	7252.5	7059.7	5537.8
60°	2113.8	2092.1	2305.3	2789.9	3596.4	4781.6	6222.1	6928.0	7574.3	7462.9	5916.6
62.5°	1360.4	1326.4	1558.6	2031.0	2809.0	3908.6	5801.2	6929.4	8076.6	8034.5	6550.6
65°	673.4	650.3	849.9	1245.0	1944.1	2989.5	5201.1	6903.6	8690.2	8717.4	7168.3
67.5°	355.7	363.8	427.7	631.3	1121.4	2112.5	4296.9	6600.8	9003.9	9155.9	7317.7
68°	327.2	329.9	380.1	525.4	973.4	1959.1	4082.4	6512.6	9028.3	9215.6	7234.8
70°	266.1	270.2	287.8	329.9	526.8	1274.8	3149.7	5763.2	8660.4	8831.4	6549.2
72.5°	211.8	224.0	234.9	252.5	309.5	669.3	1959.1	4491.1	7154.7	7173.8	5097.9
75°	161.6	171.1	192.8	207.7	241.7	367.9	932.7	2738.4	4694.7	4463.9	3003.1
77.5°	124.9	133.0	142.6	162.9	202.3	248.4	285.1	1162.1	1994.4	1641.4	848.5
80°	74.7	80.1	111.3	127.6	176.5	168.3	112.7	323.1	404.6	319.0	154.8
82.5°	43.4	47.5	63.8	97.7	123.5	91.0	66.5	100.5	99.1	86.9	51.6
85°	1.4	2.7	35.3	58.4	43.4	24.4	40.7	42.1	35.3	32.6	23.1
87.5°	0.0	1.4	9.5	8.1	9.5	5.4	8.1	10.9	13.6	12.2	9.5
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: P481901

CATALOG NUMBER: IFLD-S-SA3B-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	953.1	923.2	856.7	806.4	752.1	719.5	687.0	666.6	655.7	649.0	654.4
5°	977.5	915.0	807.8	712.8	650.3	608.2	566.1	544.4	524.0	513.2	520.0
7.5°	1031.8	938.1	760.3	657.1	583.8	518.6	465.7	423.6	399.1	377.4	381.5
10°	1098.3	951.7	761.6	624.5	518.6	415.4	340.8	287.8	258.0	238.9	237.6
12.5°	1166.2	1004.7	767.1	591.9	438.5	312.3	224.0	184.6	167.0	157.5	157.5
15°	1269.4	1052.2	753.5	532.2	332.6	203.6	153.4	139.8	133.0	124.9	126.3
17.5°	1359.0	1128.2	746.7	442.6	228.1	146.6	127.6	112.7	105.9	97.7	97.7
20°	1479.8	1175.7	710.0	342.1	157.5	122.2	103.2	89.6	78.7	72.0	73.3
22.5°	1589.8	1212.4	644.9	233.5	120.8	96.4	76.0	62.5	52.9	44.8	46.2
25°	1709.3	1249.0	549.8	143.9	85.5	59.7	40.7	29.9	20.4	14.9	14.9
27.5°	1794.8	1259.9	426.3	85.5	51.6	27.2	9.5	1.4	0.0	0.0	0.0
30°	1881.7	1264.0	294.6	46.2	20.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1980.8	1262.6	184.6	24.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	2056.8	1239.5	88.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2172.2	1205.6	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2303.9	1144.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2422.0	1082.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2556.4	1004.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2792.7	972.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3100.8	946.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3290.9	870.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3390.0	791.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3536.6	753.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3753.9	756.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4093.3	794.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4280.6	756.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4121.8	605.5	25.8	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	3984.7	556.6	25.8	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3293.6	362.5	24.4	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2398.9	200.9	20.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1395.7	100.5	14.9	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	363.8	50.2	12.2	6.8	4.1	1.4	0.0	0.0	0.0	0.0	0.0
80°	72.0	32.6	10.9	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	33.9	23.1	10.9	8.1	6.8	4.1	1.4	0.0	0.0	0.0	0.0
85°	17.6	10.9	10.9	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	4.1	4.1	4.1	2.7	1.4	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)