

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: P482206

Luminaire Tested: **IFLD-L-SA8D-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482206
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

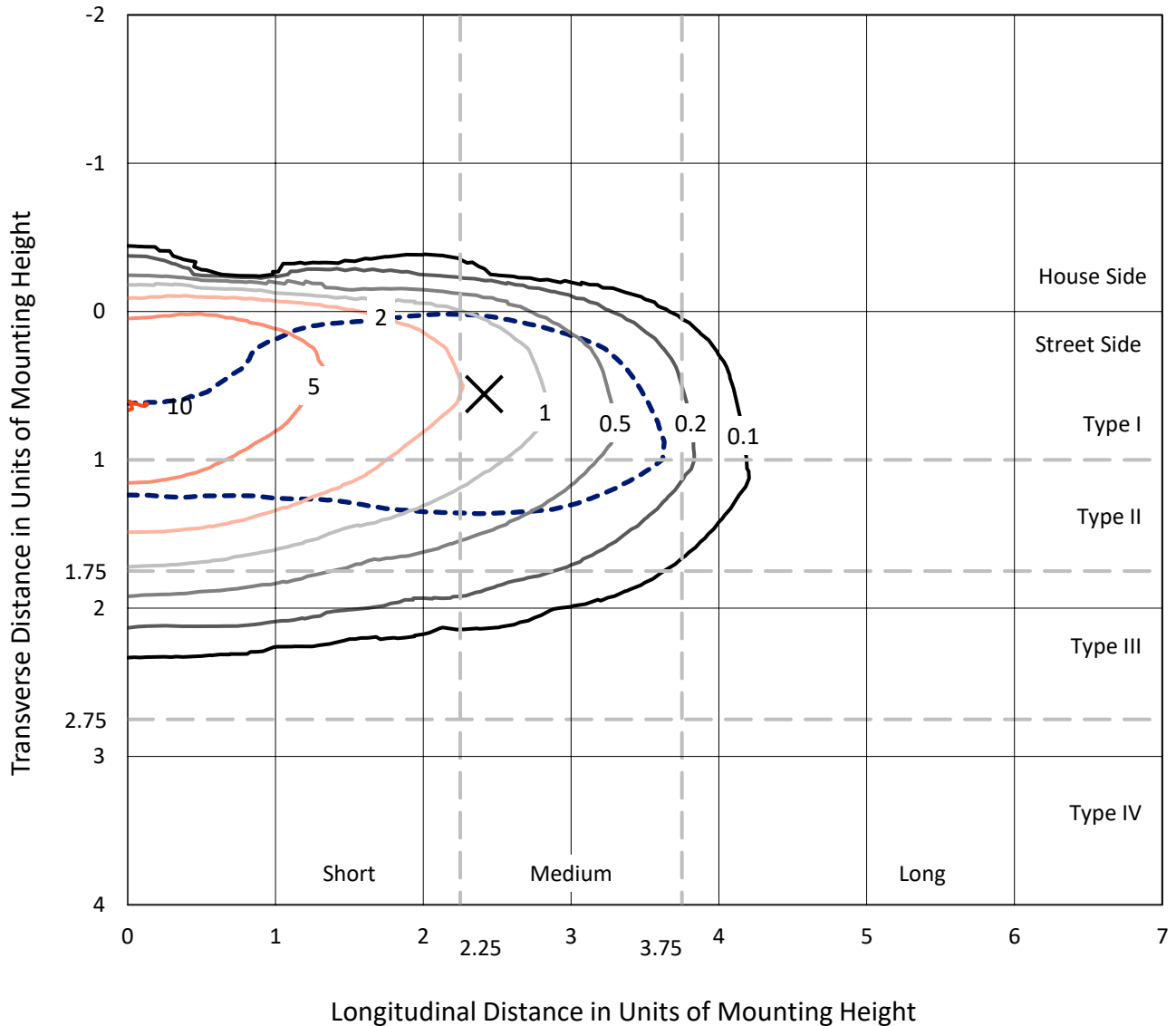
Lumens per Lamp: N/A
Luminaire Lumens: 32218.9 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 488.3
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: P482206
 CATALOG NUMBER: IFLD-L-SA8D-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

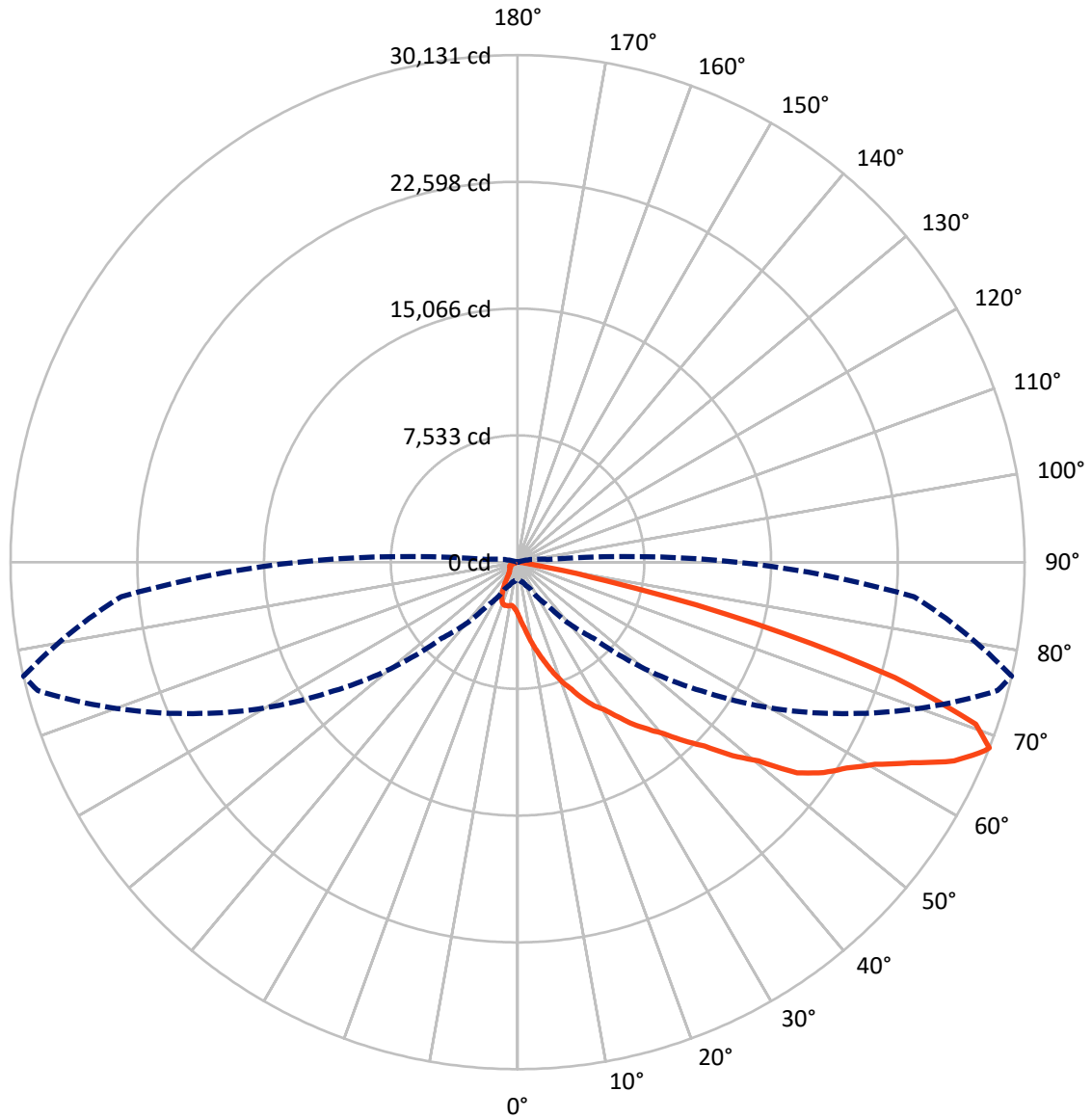
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P482206
CATALOG NUMBER: IFLD-L-SA8D-827-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482206
 CATALOG NUMBER: IFLD-L-SA8D-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1461.1	0.0	1461.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30757.8	0.0	30757.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	32218.9	0.0	32218.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.1
10°-20°	1329.2	4.1
20°-30°	2576.1	8.0
30°-40°	4491.0	13.9
40°-50°	6577.4	20.4
50°-60°	7727.5	24.0
60°-70°	6525.2	20.3
70°-80°	2529.3	7.9
80°-90°	102.8	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°	32218.9	100.0
0°-180°	32218.9	100.0

Coefficient of Utilization



REPORT NUMBER: P482206

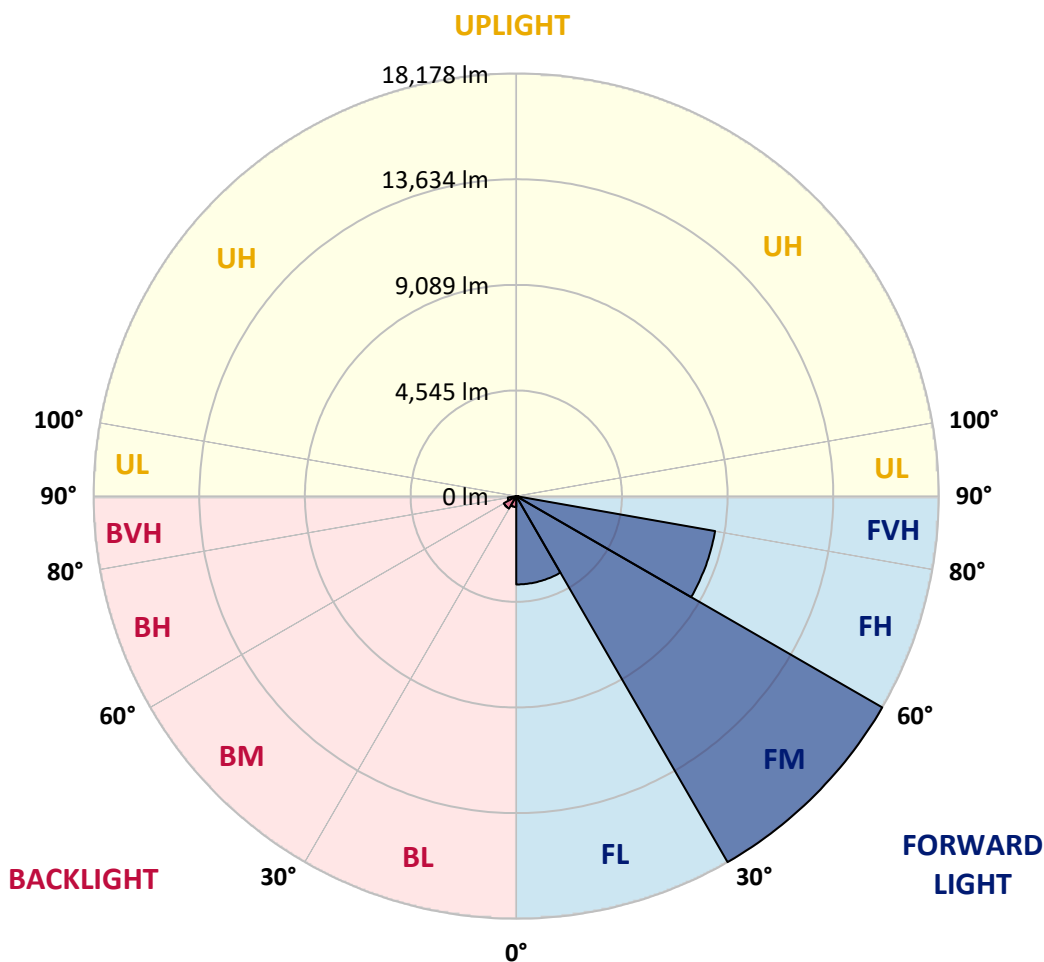
CATALOG NUMBER: IFLD-L-SA8D-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3798.9	11.8			
FM (30°-60°)	18178.5	56.4			
FH (60°-80°)	8685.5	27.0			G4/12000
FVH (80°-90°)	94.9	0.3			G1/100
BL (0°-30°)	466.8	1.4	B1/500		
BM (30°-60°)	617.4	1.9	B1/1000		
BH (60°-80°)	368.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	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-G4

Type II Medium





REPORT NUMBER: P482206

CATALOG NUMBER: IFLD-L-SA8D-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0
2.5°	4687.4	4598.7	4505.4	4478.8	4305.7	4110.4	3928.4	3750.8	3453.4	3457.9	3253.7
5°	6041.3	5930.3	5854.9	5837.1	5566.3	5229.0	4953.8	4452.2	3959.5	3848.5	3475.6
7.5°	7155.4	7119.9	7009.0	6915.7	6716.0	6303.2	5979.1	5260.0	4509.9	4385.6	3746.4
10°	7830.1	7883.4	7932.2	7812.4	7657.0	7359.6	6915.7	6138.9	5135.8	4980.4	4097.1
12.5°	8549.2	8460.5	8491.5	8589.2	8385.0	8318.4	7768.0	7044.5	5868.2	5570.8	4540.9
15°	8735.7	8771.2	8846.6	9130.7	9268.3	9077.5	8602.5	7776.9	6627.2	6214.4	4953.8
17.5°	8860.0	8842.2	8935.4	9361.5	9570.2	9752.2	9454.8	8593.6	7288.6	6920.2	5468.7
20°	9015.3	8917.7	9121.8	9392.6	9876.5	10258.2	10244.9	9414.8	7981.1	7590.4	5979.1
22.5°	9592.4	9516.9	9681.1	9707.8	10045.1	10577.8	10706.5	10085.1	8691.3	8211.9	6529.6
25°	10657.7	10795.3	10600.0	10431.3	10533.4	10884.1	10977.3	10679.9	9405.9	8966.5	7080.0
27.5°	12215.7	12198.0	11811.8	11594.3	11350.2	11305.8	11372.3	11234.7	9969.7	9654.5	7532.7
30°	13889.2	13742.7	13387.6	12863.8	12326.7	11993.8	11900.6	11758.5	10631.1	10173.9	7981.1
32.5°	15220.8	15300.7	14905.7	14222.1	13329.9	12881.6	12433.2	12277.9	11359.0	10955.1	8496.0
35°	16446.0	16339.4	16024.3	15447.2	14648.2	13924.7	13223.4	12890.4	12233.5	11834.0	9064.1
37.5°	17351.5	17484.7	16885.4	16335.0	15540.4	14941.2	14253.2	13525.2	13134.6	12601.9	9756.6
40°	18208.2	17999.6	17595.6	17089.6	16352.7	15895.5	15442.8	14306.4	14093.4	13405.3	10537.8
42.5°	18057.3	18070.6	17848.6	17440.3	16907.6	16645.7	16490.3	15256.3	14963.4	14523.9	11301.3
45°	17440.3	17493.5	17569.0	17369.2	17413.6	17151.7	17569.0	16348.3	16059.8	15593.7	12180.2
47.5°	16761.1	16849.9	16832.1	17196.1	17608.9	17697.7	18740.8	17560.1	17435.8	17178.4	13396.5
50°	15633.6	15669.2	16011.0	16672.3	17236.1	18163.8	19619.7	18882.9	19073.8	18567.7	14843.5
52.5°	13707.2	13835.9	14714.8	15660.3	16796.6	18399.1	20214.5	20849.3	21333.1	20813.8	16232.9
55°	11270.3	11447.8	12313.4	14084.5	15749.1	18043.9	20756.1	21888.0	22869.0	22083.3	17076.3
57.5°	9068.6	9086.3	9863.1	11691.9	14262.0	17347.0	21031.3	22394.0	23712.4	23082.0	18106.1
60°	6911.3	6840.3	7537.2	9121.8	11758.5	15633.6	20343.3	22651.5	24764.4	24400.4	19344.5
62.5°	4447.7	4336.8	5095.8	6640.5	9184.0	12779.5	18967.2	22655.9	26406.8	26269.1	21417.5
65°	2201.7	2126.2	2778.7	4070.4	6356.4	9774.4	17005.3	22571.6	28413.1	28501.9	23437.2
67.5°	1163.0	1189.6	1398.2	2064.1	3666.5	6906.9	14049.0	21581.7	29438.5	29935.6	23925.4
68°	1069.8	1078.6	1242.9	1717.8	3182.7	6405.3	13347.6	21293.2	29518.4	30131.0	23654.7
70°	870.0	883.3	941.0	1078.6	1722.3	4168.1	10298.1	18842.9	28315.5	28874.8	21413.0
72.5°	692.5	732.4	767.9	825.6	1012.1	2188.4	6405.3	14683.7	23392.8	23454.9	16667.9
75°	528.2	559.3	630.3	679.1	790.1	1202.9	3049.5	8953.2	15349.6	14595.0	9818.7
77.5°	408.4	435.0	466.1	532.7	661.4	812.3	932.2	3799.7	6520.7	5366.6	2774.3
80°	244.1	261.9	364.0	417.3	577.1	550.4	368.4	1056.4	1322.8	1043.1	506.0
82.5°	142.0	155.4	208.6	319.6	403.9	297.4	217.5	328.5	324.0	284.1	168.7
85°	4.4	8.9	115.4	190.9	142.0	79.9	133.2	137.6	115.4	106.5	75.5
87.5°	0.0	4.4	31.1	26.6	31.1	17.8	26.6	35.5	44.4	39.9	31.1
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: P482206
 CATALOG NUMBER: IFLD-L-SA8D-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0	3085.0
2.5°	3116.1	3018.4	2800.9	2636.7	2459.1	2352.6	2246.1	2179.5	2144.0	2121.8	2139.5
5°	3196.0	2991.8	2641.1	2330.4	2126.2	1988.6	1851.0	1780.0	1713.4	1677.9	1700.1
7.5°	3373.5	3067.2	2485.8	2148.4	1908.7	1695.6	1522.5	1384.9	1305.0	1234.0	1247.3
10°	3591.0	3111.6	2490.2	2041.9	1695.6	1358.3	1114.2	941.0	843.4	781.2	776.8
12.5°	3813.0	3284.8	2508.0	1935.3	1433.8	1020.9	732.4	603.7	546.0	514.9	514.9
15°	4150.3	3440.1	2463.6	1740.0	1087.5	665.8	501.6	457.2	435.0	408.4	412.8
17.5°	4443.3	3688.7	2441.4	1447.1	745.7	479.4	417.3	368.4	346.2	319.6	319.6
20°	4838.4	3844.0	2321.5	1118.6	514.9	399.5	337.4	293.0	257.5	235.3	239.7
22.5°	5197.9	3963.9	2108.5	763.5	395.1	315.2	248.6	204.2	173.1	146.5	150.9
25°	5588.5	4083.7	1797.7	470.5	279.6	195.3	133.2	97.7	66.6	48.8	48.8
27.5°	5868.2	4119.3	1393.8	279.6	168.7	88.8	31.1	4.4	0.0	0.0	0.0
30°	6152.3	4132.6	963.2	150.9	66.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6476.3	4128.1	603.7	79.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6724.9	4052.7	288.5	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7102.2	3941.7	88.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7532.7	3742.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7918.9	3537.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8358.4	3284.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9130.7	3178.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10138.3	3093.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10759.8	2845.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11083.8	2587.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11563.2	2463.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12273.4	2472.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13383.1	2596.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13995.7	2472.4	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13476.4	1979.7	84.3	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	13028.0	1819.9	84.3	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10768.7	1185.2	79.9	22.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7843.5	657.0	66.6	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	4563.1	328.5	48.8	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1189.6	164.2	39.9	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
80°	235.3	106.5	35.5	26.6	17.8	8.9	0.0	0.0	0.0	0.0	0.0
82.5°	111.0	75.5	35.5	26.6	22.2	13.3	4.4	0.0	0.0	0.0	0.0
85°	57.7	35.5	35.5	26.6	26.6	17.8	8.9	0.0	0.0	0.0	0.0
87.5°	26.6	13.3	13.3	13.3	13.3	8.9	4.4	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)