

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: P482201

Luminaire Tested: **IFLD-L-SA7D-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482201
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

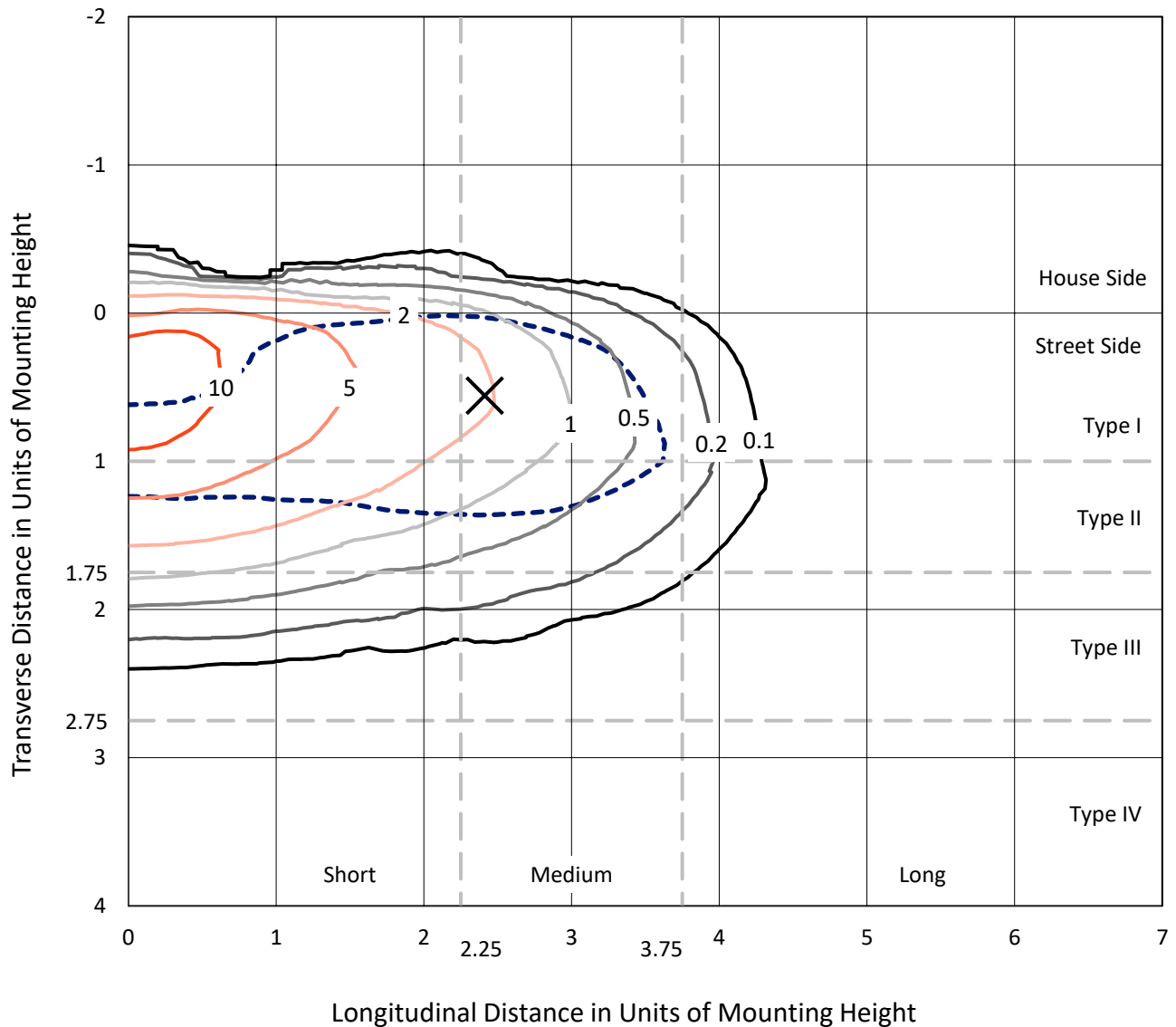
Lumens per Lamp: N/A
Luminaire Lumens: 28191.4 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 422.6
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

REPORT NUMBER: P482201
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

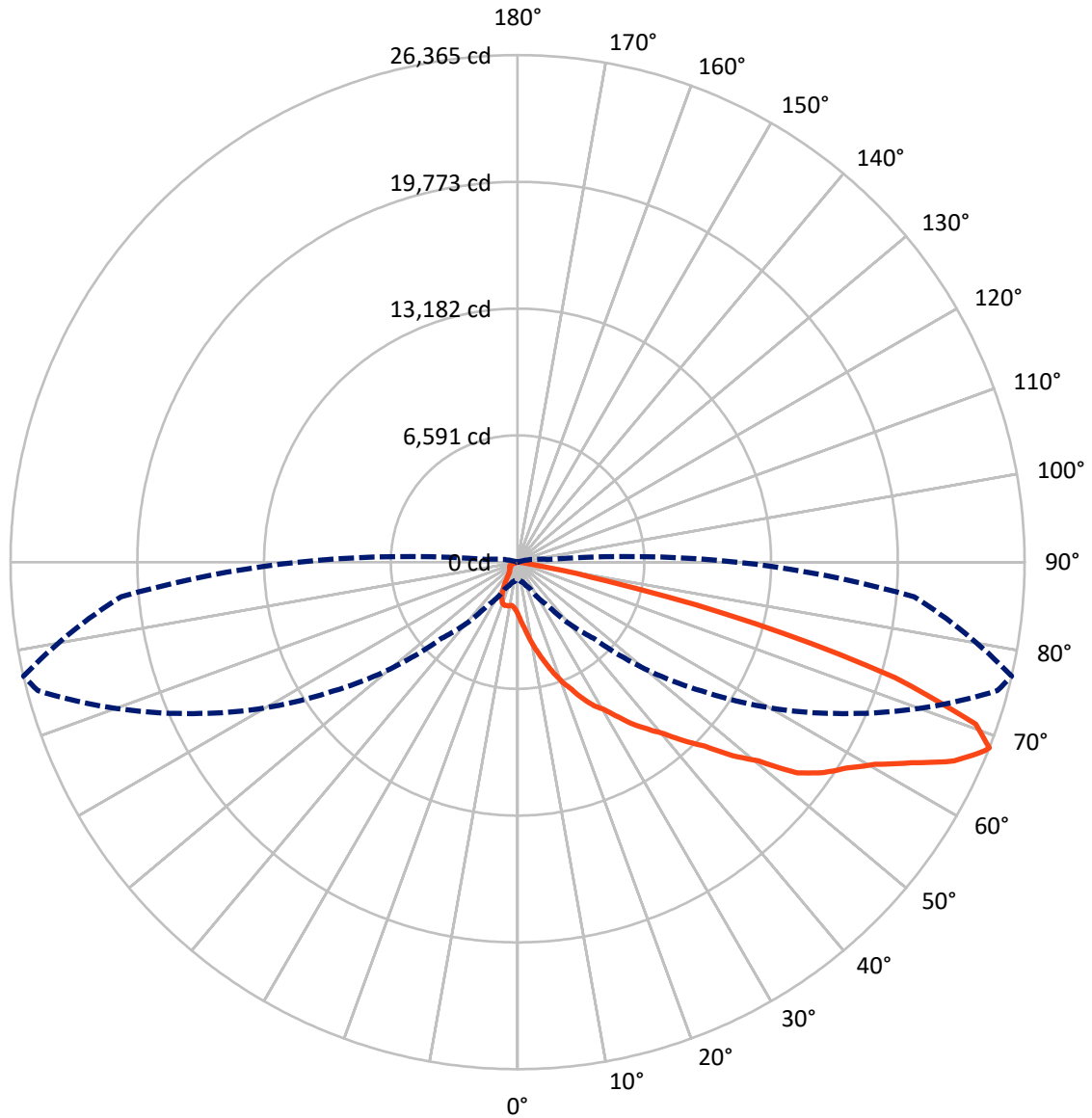
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P482201
CATALOG NUMBER: IFLD-L-SA7D-827-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482201
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.5	0.0	1278.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	26913.0	0.0	26913.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	28191.4	0.0	28191.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.1
10°-20°	1163.1	4.1
20°-30°	2254.1	8.0
30°-40°	3929.6	13.9
40°-50°	5755.2	20.4
50°-60°	6761.5	24.0
60°-70°	5709.5	20.3
70°-80°	2213.1	7.9
80°-90°	90.0	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°	28191.4	100.0
0°-180°	28191.4	100.0

Coefficient of Utilization

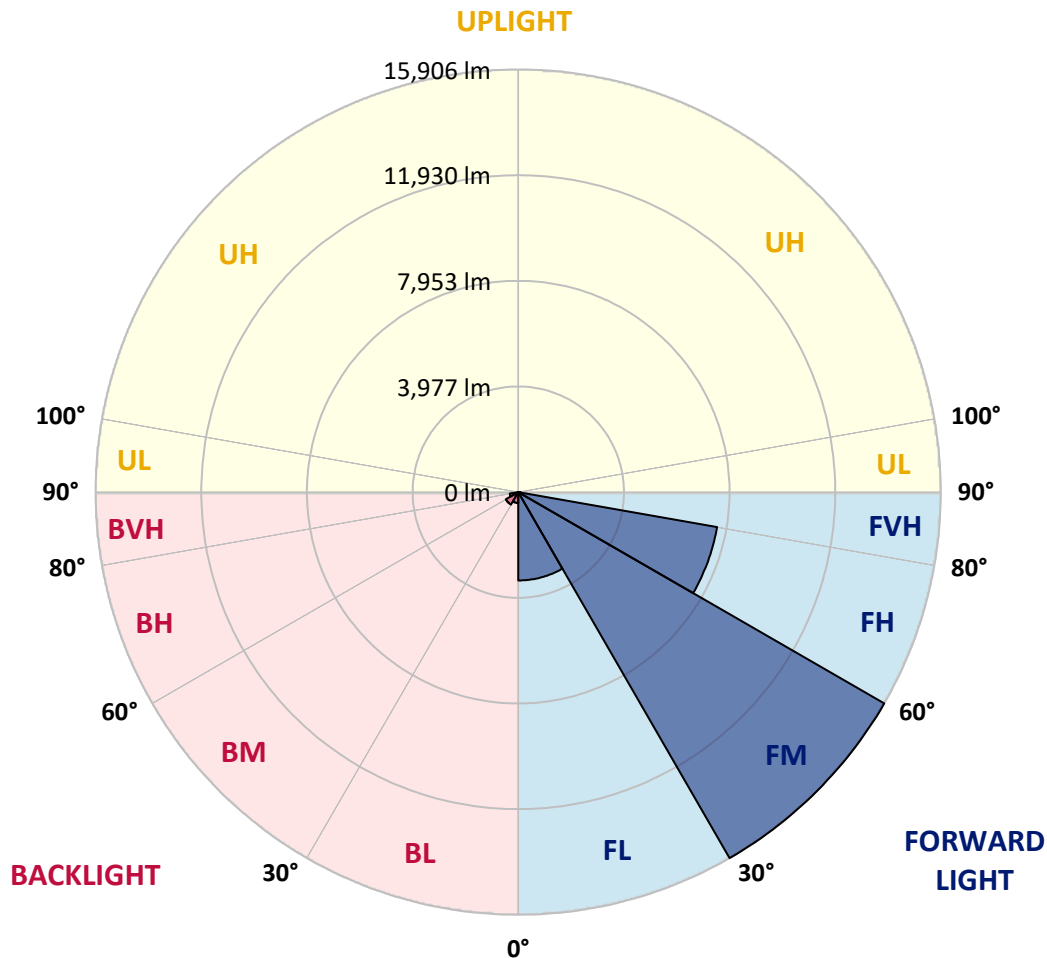


REPORT NUMBER: P482201
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3324.0	11.8			
FM (30°-60°)	15906.1	56.4			
FH (60°-80°)	7599.8	27.0			G4/12000
FVH (80°-90°)	83.0	0.3			G1/100
BL (0°-30°)	408.5	1.4	B1/500		
BM (30°-60°)	540.2	1.9	B1/1000		
BH (60°-80°)	322.8	1.1	B1/500		G1/500
BVH (80°-90°)	7.0	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: P482201

CATALOG NUMBER: IFLD-L-SA7D-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4
2.5°	4101.5	4023.8	3942.2	3918.9	3767.5	3596.6	3437.3	3282.0	3021.7	3025.6	2847.0
5°	5286.1	5189.0	5123.0	5107.4	4870.5	4575.3	4334.5	3895.6	3464.5	3367.4	3041.2
7.5°	6261.0	6229.9	6132.8	6051.3	5876.5	5515.3	5231.7	4602.5	3946.1	3837.4	3278.1
10°	6851.4	6898.0	6940.7	6835.8	6699.9	6439.7	6051.3	5371.6	4493.8	4357.8	3584.9
12.5°	7480.6	7402.9	7430.1	7515.5	7336.9	7278.6	6797.0	6163.9	5134.6	4874.4	3973.3
15°	7643.7	7674.8	7740.8	7989.4	8109.8	7942.8	7527.2	6804.7	5798.8	5437.6	4334.5
17.5°	7752.4	7736.9	7818.5	8191.3	8373.9	8533.1	8272.9	7519.4	6377.5	6055.1	4785.1
20°	7888.4	7802.9	7981.6	8218.5	8641.9	8975.9	8964.2	8237.9	6983.4	6641.6	5231.7
22.5°	8393.3	8327.3	8471.0	8494.3	8789.5	9255.5	9368.2	8824.4	7604.9	7185.4	5713.3
25°	9325.5	9445.9	9275.0	9127.4	9216.7	9523.5	9605.1	9344.9	8230.2	7845.7	6195.0
27.5°	10688.7	10673.2	10335.3	10145.0	9931.4	9892.5	9950.8	9830.4	8723.4	8447.7	6591.1
30°	12153.0	12024.8	11714.1	11255.8	10785.8	10494.5	10413.0	10288.7	9302.2	8902.1	6983.4
32.5°	13318.2	13388.1	13042.4	12444.3	11663.6	11271.3	10879.1	10743.1	9939.1	9585.7	7434.0
35°	14390.2	14297.0	14021.2	13516.3	12817.2	12184.1	11570.4	11279.1	10704.3	10354.7	7931.1
37.5°	15182.5	15299.0	14774.7	14293.1	13597.8	13073.5	12471.5	11834.5	11492.7	11026.6	8537.0
40°	15932.1	15749.6	15396.1	14953.4	14308.6	13908.6	13512.4	12518.1	12331.7	11729.6	9220.6
42.5°	15800.1	15811.7	15617.5	15260.2	14794.1	14565.0	14429.0	13349.3	13092.9	12708.4	9888.6
45°	15260.2	15306.8	15372.8	15198.0	15236.9	15007.7	15372.8	14304.7	14052.3	13644.5	10657.7
47.5°	14665.9	14743.6	14728.1	15046.6	15407.8	15485.5	16398.2	15365.1	15256.3	15031.0	11721.9
50°	13679.4	13710.5	14009.5	14588.3	15081.5	15893.3	17167.2	16522.5	16689.5	16246.7	12988.1
52.5°	11993.8	12106.4	12875.4	13702.7	14697.0	16099.1	17687.7	18243.1	18666.5	18212.0	14203.7
55°	9861.4	10016.8	10774.2	12323.9	13780.4	15788.4	18161.5	19151.9	20010.3	19322.8	14941.7
57.5°	7935.0	7950.5	8630.2	10230.4	12479.3	15178.6	18402.3	19594.7	20748.3	20196.7	15842.8
60°	6047.4	5985.2	6595.0	7981.6	10288.7	13679.4	17800.3	19820.0	21668.8	21350.3	16926.4
62.5°	3891.8	3794.7	4458.8	5810.4	8036.0	11182.0	16596.3	19823.9	23105.9	22985.4	18740.2
65°	1926.5	1860.4	2431.4	3561.6	5561.9	8552.5	14879.6	19750.1	24861.4	24939.1	20507.5
67.5°	1017.6	1040.9	1223.5	1806.1	3208.2	6043.5	12292.8	18884.0	25758.6	26193.6	20934.7
68°	936.0	943.8	1087.5	1503.1	2784.8	5604.6	11679.2	18631.5	25828.5	26364.5	20697.8
70°	761.3	772.9	823.4	943.8	1507.0	3647.1	9010.9	16487.5	24776.0	25265.3	18736.4
72.5°	605.9	640.9	671.9	722.4	885.5	1914.8	5604.6	12848.2	20468.6	20523.0	14584.4
75°	462.2	489.4	551.5	594.3	691.4	1052.6	2668.3	7834.0	13430.8	12770.6	8591.4
77.5°	357.3	380.6	407.8	466.1	578.7	710.8	815.6	3324.7	5705.6	4695.7	2427.5
80°	213.6	229.2	318.5	365.1	504.9	481.6	322.4	924.4	1157.4	912.7	442.8
82.5°	124.3	135.9	182.5	279.6	353.4	260.2	190.3	287.4	283.5	248.6	147.6
85°	3.9	7.8	101.0	167.0	124.3	69.9	116.5	120.4	101.0	93.2	66.0
87.5°	0.0	3.9	27.2	23.3	27.2	15.5	23.3	31.1	38.8	35.0	27.2
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: P482201

CATALOG NUMBER: IFLD-L-SA7D-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4	2699.4
2.5°	2726.6	2641.1	2450.8	2307.1	2151.7	2058.5	1965.3	1907.0	1876.0	1856.5	1872.1
5°	2796.5	2617.8	2311.0	2039.1	1860.4	1740.0	1619.6	1557.5	1499.2	1468.1	1487.6
7.5°	2951.8	2683.8	2175.0	1879.9	1670.1	1483.7	1332.2	1211.8	1141.9	1079.7	1091.4
10°	3142.1	2722.7	2178.9	1786.6	1483.7	1188.5	974.9	823.4	738.0	683.6	679.7
12.5°	3336.3	2874.2	2194.5	1693.4	1254.5	893.3	640.9	528.2	477.7	450.5	450.5
15°	3631.5	3010.1	2155.6	1522.5	951.6	582.6	438.9	400.1	380.6	357.3	361.2
17.5°	3887.9	3227.6	2136.2	1266.2	652.5	419.5	365.1	322.4	303.0	279.6	279.6
20°	4233.5	3363.5	2031.3	978.8	450.5	349.6	295.2	256.3	225.3	205.9	209.7
22.5°	4548.2	3468.4	1844.9	668.0	345.7	275.8	217.5	178.7	151.5	128.2	132.1
25°	4889.9	3573.3	1573.0	411.7	244.7	170.9	116.5	85.4	58.3	42.7	42.7
27.5°	5134.6	3604.3	1219.6	244.7	147.6	77.7	27.2	3.9	0.0	0.0	0.0
30°	5383.2	3616.0	842.8	132.1	58.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5666.7	3612.1	528.2	69.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	5884.2	3546.1	252.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6214.4	3449.0	77.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6591.1	3274.2	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6929.0	3095.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7313.6	2874.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7989.4	2780.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8871.0	2707.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9414.8	2489.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9698.3	2264.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10117.8	2155.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10739.2	2163.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11710.2	2272.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12246.2	2163.4	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11791.8	1732.3	73.8	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	11399.5	1592.4	73.8	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	9422.6	1037.0	69.9	19.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6863.0	574.8	58.3	15.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	3992.7	287.4	42.7	15.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1040.9	143.7	35.0	19.4	11.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	205.9	93.2	31.1	23.3	15.5	7.8	0.0	0.0	0.0	0.0	0.0
82.5°	97.1	66.0	31.1	23.3	19.4	11.7	3.9	0.0	0.0	0.0	0.0
85°	50.5	31.1	31.1	23.3	23.3	15.5	7.8	0.0	0.0	0.0	0.0
87.5°	23.3	11.7	11.7	11.7	11.7	7.8	3.9	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)