

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: P481817

Luminaire Tested: **IFLD-S-SA2A-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

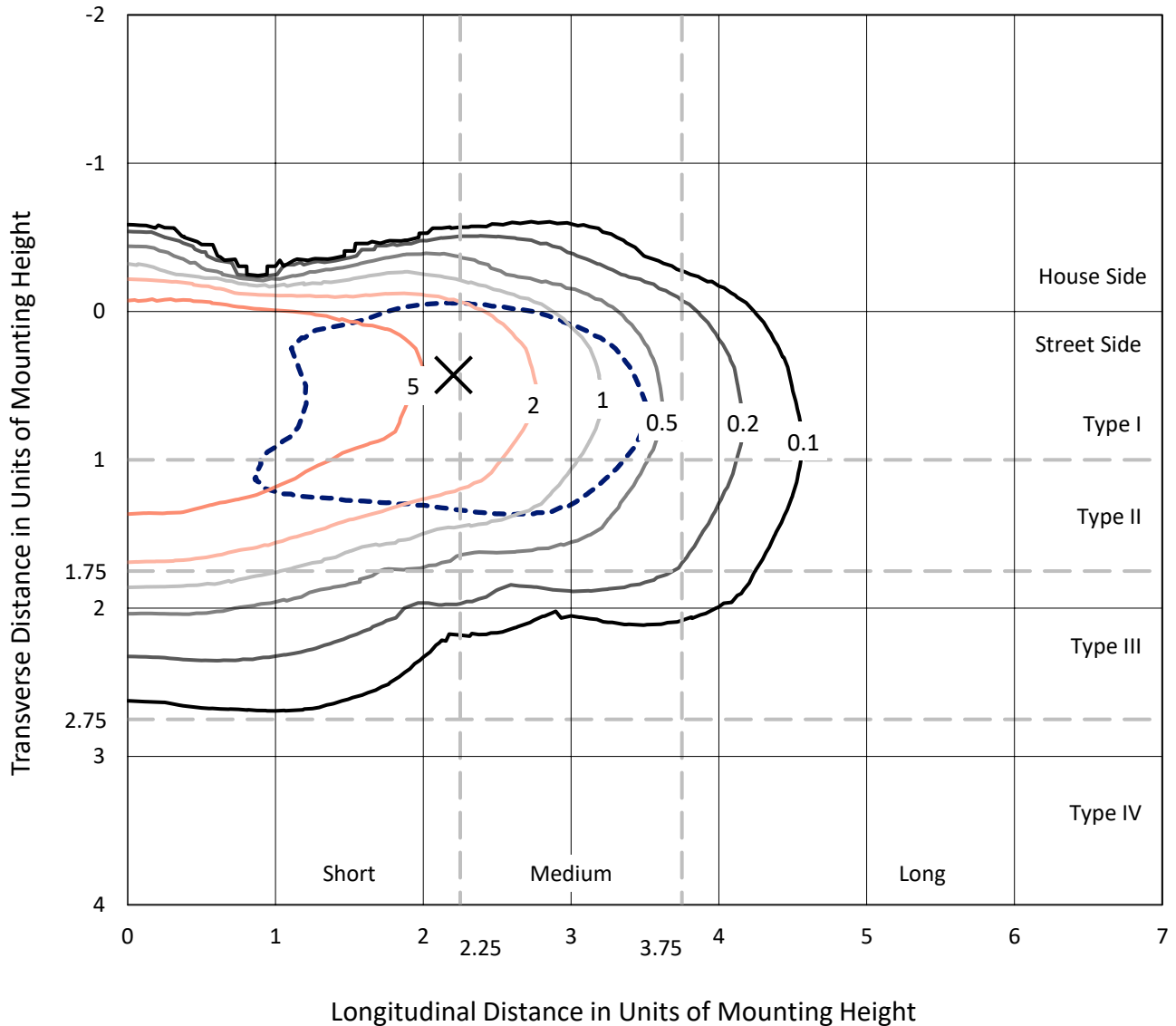
Lumens per Lamp: N/A
Luminaire Lumens: 5282.9 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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: P481817
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

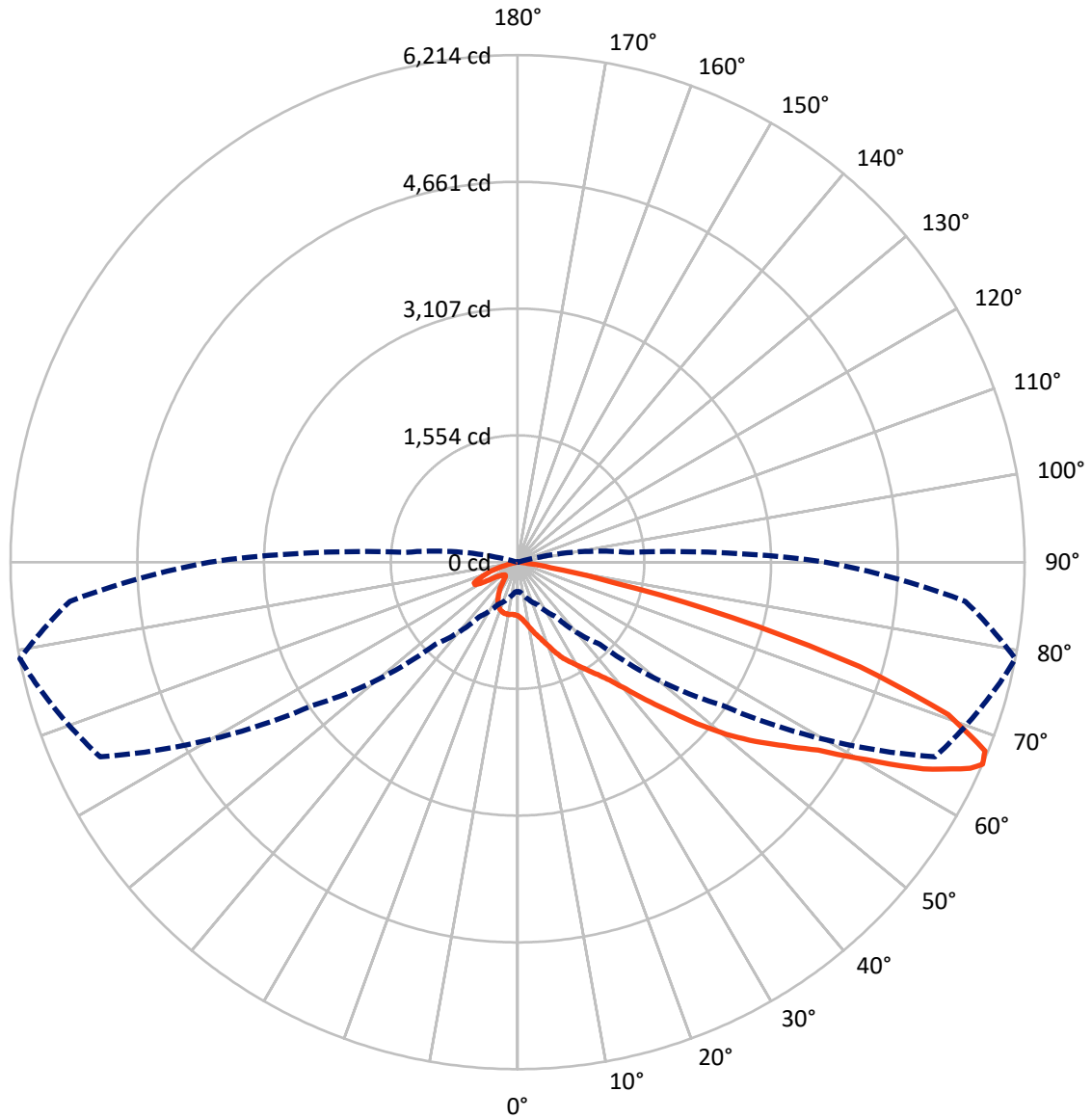
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481817
CATALOG NUMBER: IFLD-S-SA2A-830-U-T2-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	396.7	0.0	396.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	4886.2	0.0	4886.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	5282.9	0.0	5282.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.2
10°-20°	171.1	3.2
20°-30°	284.2	5.4
30°-40°	488.1	9.2
40°-50°	884.3	16.7
50°-60°	1397.8	26.5
60°-70°	1422.4	26.9
70°-80°	542.4	10.3
80°-90°	30.4	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°	5282.9	100.0
0°-180°	5282.9	100.0

Coefficient of Utilization



REPORT NUMBER: P481817

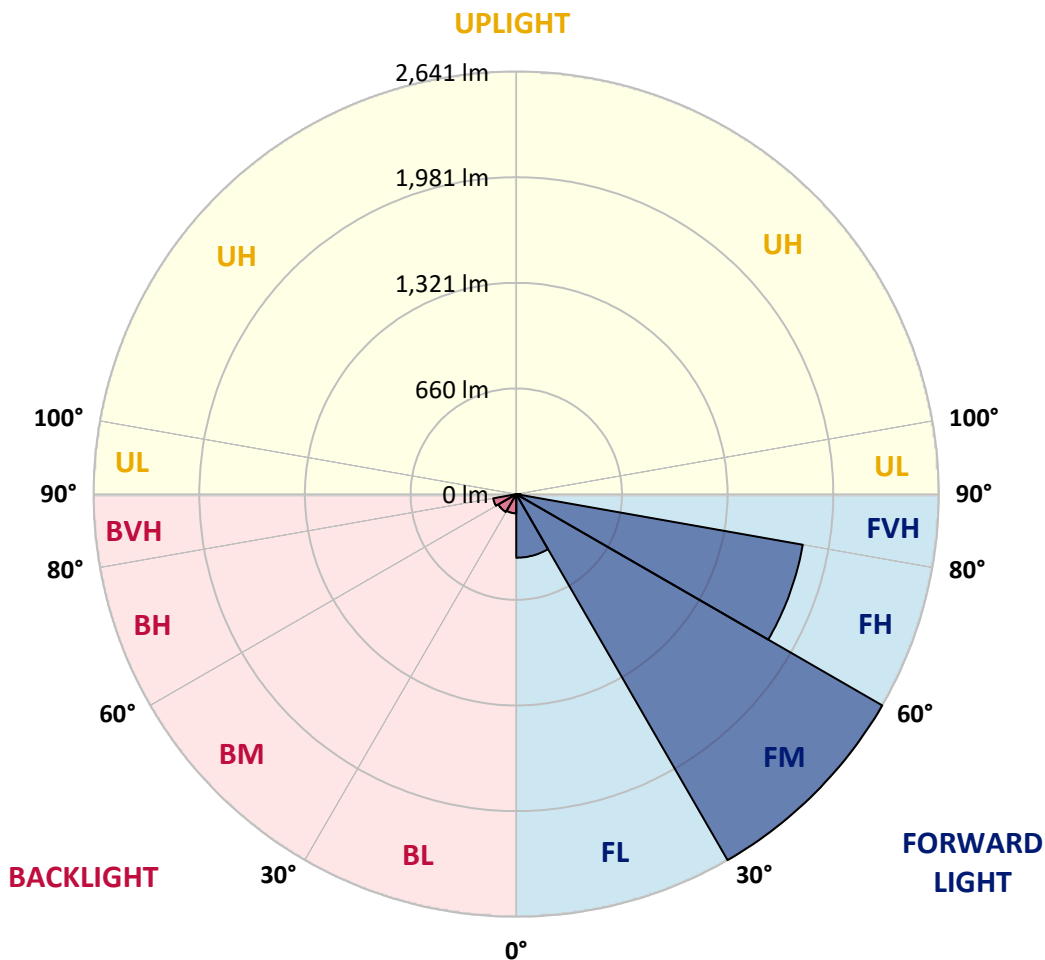
CATALOG NUMBER: IFLD-S-SA2A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.4	7.5			
FM (30°-60°)	2641.3	50.0			
FH (60°-80°)	1818.6	34.4			G2/5000
FVH (80°-90°)	28.9	0.5			G1/100
BL (0°-30°)	120.0	2.3	B1/500		
BM (30°-60°)	128.9	2.4	B0/220		
BH (60°-80°)	146.2	2.8	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: B1-U0-G2

Type II Short





REPORT NUMBER: P481817
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	744.4	743.6	740.3	734.6	727.3	724.9	714.3	699.6	691.5	682.5	678.4
5°	795.7	791.6	801.4	797.3	799.0	779.4	766.4	755.8	724.9	712.6	693.1
7.5°	807.1	811.2	810.4	816.9	823.4	830.7	821.8	806.3	775.3	757.4	736.3
10°	807.1	805.5	812.0	821.0	839.7	856.0	880.4	860.0	836.4	815.3	777.0
12.5°	792.5	790.0	796.5	815.3	848.6	882.0	908.9	928.5	895.1	878.0	828.3
15°	747.7	745.2	772.1	805.5	849.5	904.0	960.2	992.0	969.2	942.3	886.9
17.5°	692.3	695.5	724.0	779.4	849.5	914.6	986.3	1055.5	1052.3	1018.1	960.2
20°	673.5	676.0	704.5	744.4	824.2	921.9	1027.0	1124.7	1144.3	1103.6	1027.8
22.5°	709.4	706.9	709.4	733.8	807.1	915.4	1053.9	1203.7	1238.8	1207.0	1116.6
25°	831.5	829.9	809.6	772.1	797.3	900.8	1067.7	1255.9	1336.5	1307.2	1188.3
27.5°	1010.7	1004.2	972.4	894.3	842.9	909.7	1090.5	1306.4	1422.0	1388.6	1252.6
30°	1202.9	1187.5	1145.9	1048.2	961.0	943.1	1103.6	1343.8	1517.3	1475.0	1308.8
32.5°	1335.7	1356.0	1343.0	1243.7	1110.1	1020.5	1124.7	1391.1	1605.3	1577.6	1404.9
35°	1540.9	1564.5	1510.0	1422.0	1287.6	1143.5	1169.5	1429.3	1740.5	1694.0	1494.5
37.5°	1799.9	1817.8	1778.7	1611.8	1470.1	1295.0	1261.6	1509.2	1856.9	1834.9	1609.3
40°	1930.2	2016.6	1961.2	1810.5	1658.2	1506.7	1413.9	1602.8	2059.7	2041.8	1768.2
42.5°	2110.2	2153.4	2124.9	2013.3	1854.5	1733.1	1602.0	1785.3	2305.7	2305.7	1983.2
45°	2300.8	2302.4	2300.8	2209.6	2068.7	2006.0	1856.1	2014.1	2570.4	2599.7	2240.5
47.5°	2457.2	2506.0	2502.0	2447.4	2338.3	2314.6	2110.2	2274.7	2902.7	2954.0	2491.4
50°	2537.8	2592.4	2608.7	2637.2	2632.3	2682.0	2387.9	2576.9	3189.3	3315.6	2813.9
52.5°	2515.8	2519.9	2620.1	2732.4	2911.6	3050.9	2722.7	2919.8	3524.9	3649.5	3063.1
55°	2335.8	2320.3	2526.4	2655.1	3025.6	3276.5	3186.1	3347.3	3786.3	3976.1	3320.5
57.5°	1940.8	1944.9	2135.5	2396.9	2940.9	3366.1	3681.3	3906.1	4152.8	4344.2	3682.1
60°	1339.8	1334.9	1548.3	1850.4	2443.3	3199.1	3966.3	4630.1	4643.1	4914.3	4331.2
62.5°	753.4	755.0	917.1	1175.2	1709.5	2614.4	3952.5	5398.9	5343.5	5581.4	5069.1
65°	426.8	437.4	548.9	696.3	1023.8	1755.1	3399.5	5705.2	5883.5	6095.3	5517.0
66°	360.8	368.1	463.4	575.0	816.9	1423.6	3059.9	5645.7	6052.9	6214.2	5508.1
67.5°	279.4	289.1	368.9	456.1	599.4	985.5	2462.9	5350.1	6083.9	6178.3	5352.5
70°	191.4	197.9	259.0	346.1	409.7	504.1	1472.5	4423.2	5520.3	5600.1	4652.1
72.5°	134.4	137.6	181.6	262.2	315.2	288.3	730.6	3147.0	4224.5	4380.1	3618.6
75°	96.9	100.2	124.6	188.1	246.0	189.0	334.7	2010.0	2590.7	2712.9	2179.4
77.5°	70.0	74.1	84.7	121.4	178.4	132.8	164.5	1049.8	1221.7	1200.5	937.4
80°	42.4	46.4	62.7	78.2	130.3	93.7	90.4	438.2	433.3	411.3	294.8
82.5°	19.5	22.8	33.4	52.9	91.2	65.2	43.2	156.4	136.8	125.4	83.1
85°	5.7	7.3	19.5	39.9	46.4	31.8	26.1	53.8	56.2	48.1	27.7
87.5°	0.0	0.8	9.0	9.8	13.8	10.6	9.8	13.8	26.1	21.2	9.0
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: P481817
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	663.8	658.1	644.2	623.0	604.3	594.5	580.7	568.5	562.0	561.1	560.3
5°	680.1	664.6	631.2	592.9	564.4	533.5	512.3	496.8	482.1	468.3	476.4
7.5°	702.0	677.6	623.0	573.4	511.5	471.6	434.1	412.1	399.1	386.9	385.2
10°	736.3	705.3	617.3	527.8	456.9	398.3	360.0	328.2	310.3	289.1	297.3
12.5°	782.7	727.3	596.2	486.2	395.0	333.1	278.5	227.2	198.7	176.7	177.5
15°	829.1	756.6	576.6	435.7	338.8	257.4	177.5	142.5	134.4	129.5	131.1
17.5°	874.7	780.2	546.5	384.4	274.5	163.7	129.5	122.2	118.1	113.2	113.2
20°	930.1	795.7	509.0	337.2	189.0	121.4	110.8	105.9	99.4	92.8	93.7
22.5°	983.8	808.7	465.9	276.9	127.1	105.1	92.8	86.3	80.6	74.1	74.1
25°	1037.6	812.8	409.7	198.7	102.6	83.9	72.5	63.5	57.8	52.1	52.9
27.5°	1074.2	787.6	356.7	127.1	82.3	63.5	50.5	43.2	38.3	32.6	32.6
30°	1095.4	741.1	299.7	89.6	61.9	43.2	30.1	22.8	17.9	13.8	13.0
32.5°	1116.6	703.7	235.4	68.4	40.7	22.8	11.4	4.1	0.0	0.0	0.0
35°	1158.9	661.3	158.0	38.3	13.8	0.8	0.0	0.0	0.0	0.0	0.0
37.5°	1185.8	602.7	72.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1253.4	573.4	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1363.4	553.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1483.9	544.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1644.4	566.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1813.8	626.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1999.5	682.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2161.5	750.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2459.6	909.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2994.7	1223.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3597.4	1456.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3818.1	1450.5	15.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3779.0	1370.7	15.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3576.2	1217.6	13.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3071.3	1005.8	13.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2341.5	783.5	13.0	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1413.1	417.0	10.6	4.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	562.8	146.6	8.1	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.3	44.0	4.9	3.3	2.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	39.9	16.3	4.1	3.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.5	3.3	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0
87.5°	4.9	2.4	2.4	1.6	1.6	0.8	0.8	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)