

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: P481818

Luminaire Tested: **IFLD-S-SA2B-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481818
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

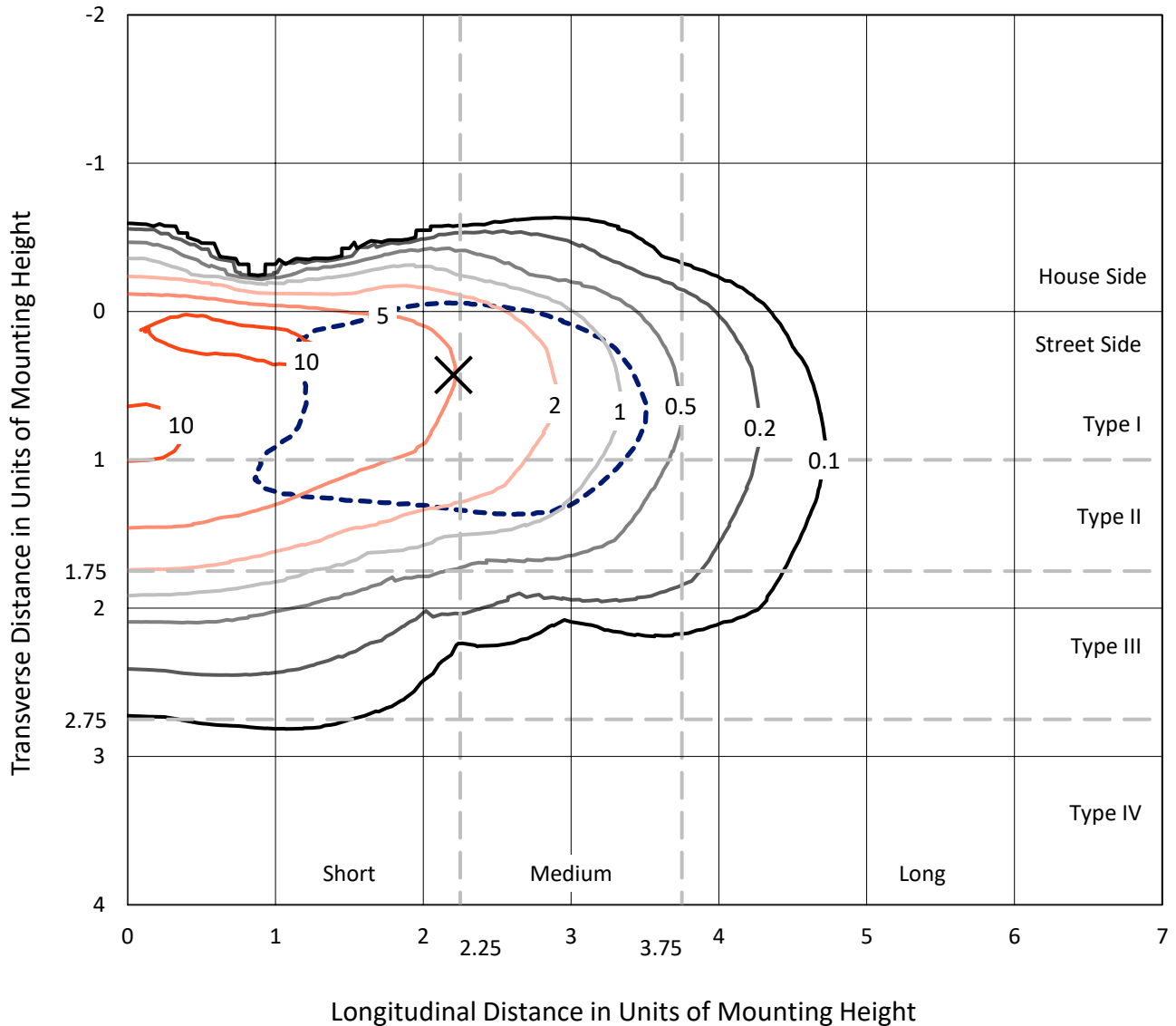
Lumens per Lamp: N/A
Luminaire Lumens: 6533.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

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Iso-Footcandle Lines of Horizontal Illumination

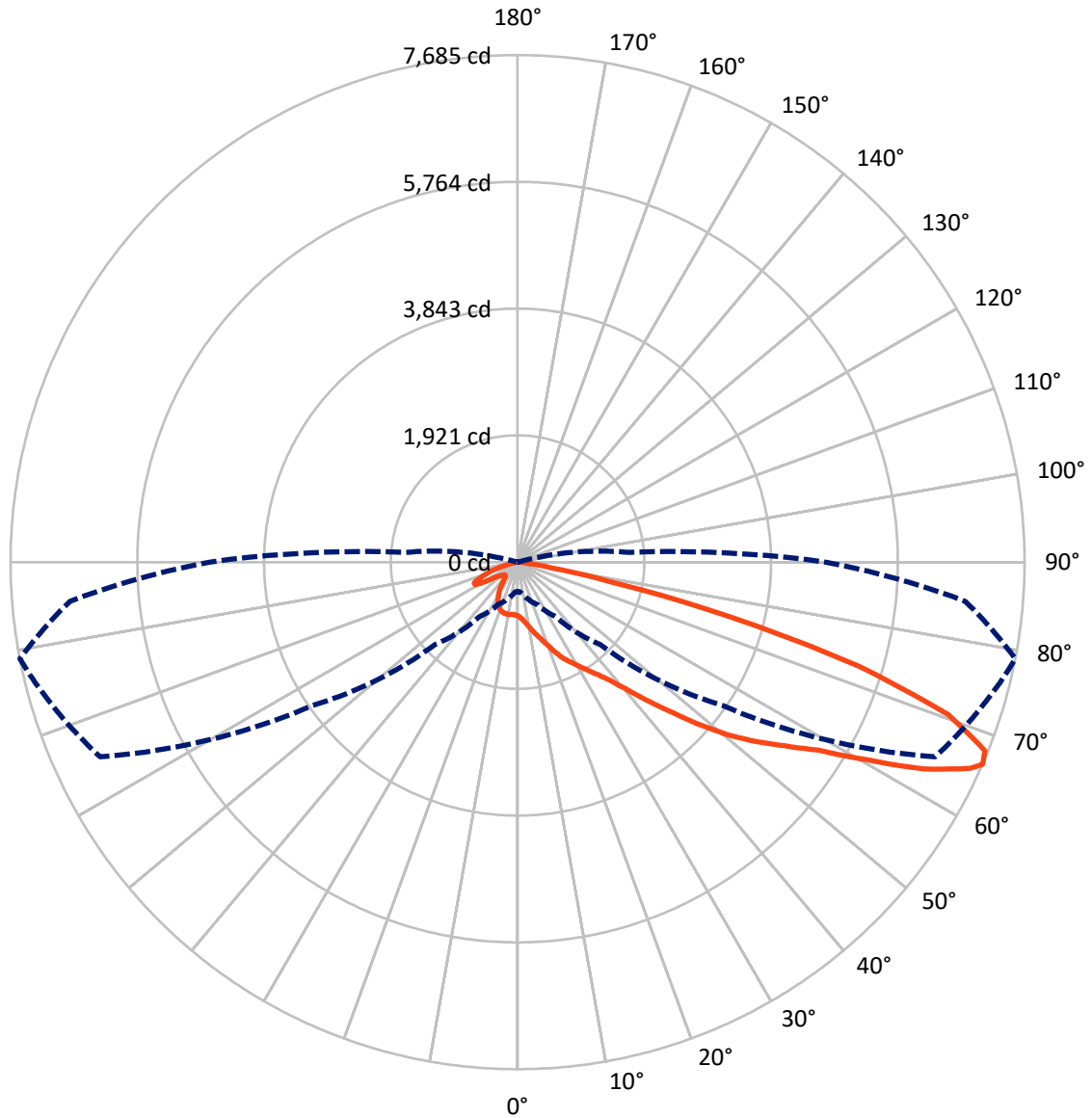
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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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	490.6	0.0	490.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6042.9	0.0	6042.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	6533.5	0.0	6533.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.2
10°-20°	211.6	3.2
20°-30°	351.5	5.4
30°-40°	603.7	9.2
40°-50°	1093.6	16.7
50°-60°	1728.7	26.5
60°-70°	1759.1	26.9
70°-80°	670.8	10.3
80°-90°	37.6	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°	6533.5	100.0
0°-180°	6533.5	100.0

Coefficient of Utilization

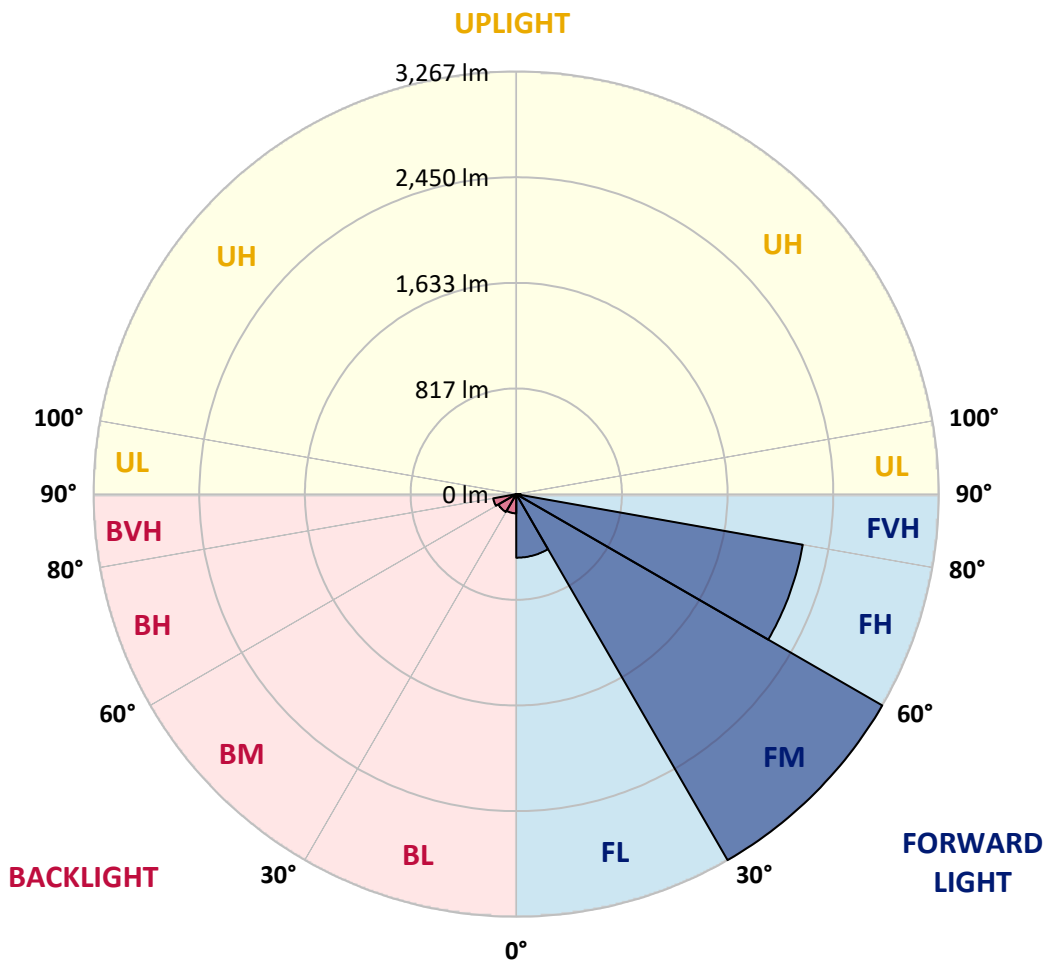


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.5	7.5			
FM (30°-60°)	3266.6	50.0			
FH (60°-80°)	2249.1	34.4			G2/5000
FVH (80°-90°)	35.7	0.5			G1/100
BL (0°-30°)	148.4	2.3	B1/500		
BM (30°-60°)	159.4	2.4	B0/220		
BH (60°-80°)	180.8	2.8	B1/500		G1/500
BVH (80°-90°)	1.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8
2.5°	920.6	919.6	915.6	908.5	899.5	896.4	883.4	865.2	855.1	844.1	839.0
5°	984.1	979.0	991.1	986.1	988.1	963.9	947.8	934.7	896.4	881.3	857.2
7.5°	998.2	1003.2	1002.2	1010.3	1018.3	1027.4	1016.3	997.2	958.9	936.7	910.5
10°	998.2	996.2	1004.2	1015.3	1038.5	1058.6	1088.8	1063.6	1034.4	1008.3	960.9
12.5°	980.0	977.0	985.1	1008.3	1049.5	1090.8	1124.1	1148.3	1107.0	1085.8	1024.4
15°	924.6	921.6	954.9	996.2	1050.6	1118.0	1187.5	1226.8	1198.6	1165.4	1096.9
17.5°	856.2	860.2	895.4	963.9	1050.6	1131.1	1219.8	1305.4	1301.4	1259.1	1187.5
20°	833.0	836.0	871.3	920.6	1019.3	1140.2	1270.1	1391.0	1415.2	1364.8	1271.1
22.5°	877.3	874.3	877.3	907.5	998.2	1132.1	1303.4	1488.7	1532.0	1492.7	1380.9
25°	1028.4	1026.4	1001.2	954.9	986.1	1114.0	1320.5	1553.2	1652.9	1616.6	1469.6
27.5°	1250.0	1241.9	1202.6	1106.0	1042.5	1125.1	1348.7	1615.6	1758.6	1717.4	1549.1
30°	1487.7	1468.6	1417.2	1296.3	1188.5	1166.4	1364.8	1662.0	1876.5	1824.1	1618.6
32.5°	1651.9	1677.1	1660.9	1538.1	1372.9	1262.1	1391.0	1720.4	1985.3	1951.0	1737.5
35°	1905.7	1934.9	1867.4	1758.6	1592.5	1414.2	1446.4	1767.7	2152.5	2095.1	1848.3
37.5°	2226.0	2248.2	2199.8	1993.3	1818.1	1601.5	1560.2	1866.4	2296.5	2269.3	1990.3
40°	2387.2	2493.9	2425.4	2239.1	2050.7	1863.4	1748.6	1982.3	2547.3	2525.2	2186.7
42.5°	2609.8	2663.2	2627.9	2489.9	2293.5	2143.4	1981.2	2207.9	2851.5	2851.5	2452.6
45°	2845.5	2847.5	2845.5	2732.7	2558.4	2480.8	2295.5	2490.9	3178.9	3215.1	2770.9
47.5°	3038.9	3099.3	3094.3	3026.8	2891.8	2862.6	2609.8	2813.2	3589.8	3653.3	3081.2
50°	3138.6	3206.1	3226.2	3261.5	3255.4	3316.9	2953.2	3186.9	3944.4	4100.5	3480.0
52.5°	3111.4	3116.4	3240.3	3379.3	3600.9	3773.1	3367.2	3611.0	4359.3	4513.5	3788.2
55°	2888.8	2869.6	3124.5	3283.6	3741.9	4052.1	3940.3	4139.8	4682.7	4917.4	4106.5
57.5°	2400.3	2405.3	2641.0	2964.3	3637.2	4162.9	4552.7	4830.7	5135.9	5372.6	4553.7
60°	1656.9	1650.9	1914.8	2288.5	3021.7	3956.5	4905.3	5726.2	5742.3	6077.7	5356.5
62.5°	931.7	933.7	1134.2	1453.5	2114.2	3233.3	4888.2	6677.0	6608.5	6902.6	6269.1
65°	527.8	540.9	678.9	861.2	1266.1	2170.6	4204.2	7055.7	7276.3	7538.2	6823.1
66°	446.2	455.3	573.1	711.1	1010.3	1760.7	3784.2	6982.2	7485.8	7685.3	6812.0
67.5°	345.5	357.6	456.3	564.1	741.3	1218.8	3045.9	6616.6	7524.1	7640.9	6619.6
70°	236.7	244.8	320.3	428.1	506.6	623.5	1821.1	5470.3	6827.1	6925.8	5753.4
72.5°	166.2	170.2	224.6	324.3	389.8	356.6	903.5	3892.0	5224.6	5417.0	4475.2
75°	119.9	123.9	154.1	232.7	304.2	233.7	414.0	2485.9	3204.0	3355.1	2695.4
77.5°	86.6	91.7	104.8	150.1	220.6	164.2	203.5	1298.3	1510.9	1484.7	1159.3
80°	52.4	57.4	77.6	96.7	161.2	115.8	111.8	541.9	535.9	508.7	364.6
82.5°	24.2	28.2	41.3	65.5	112.8	80.6	53.4	193.4	169.2	155.1	102.7
85°	7.1	9.1	24.2	49.4	57.4	39.3	32.2	66.5	69.5	59.4	34.2
87.5°	0.0	1.0	11.1	12.1	17.1	13.1	12.1	17.1	32.2	26.2	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8
2.5°	820.9	813.9	796.7	770.5	747.4	735.3	718.2	703.1	695.0	694.0	693.0
5°	841.0	821.9	780.6	733.3	698.0	659.7	633.6	614.4	596.3	579.2	589.2
7.5°	868.2	838.0	770.5	709.1	632.5	583.2	536.9	509.7	493.5	478.4	476.4
10°	910.5	872.3	763.5	652.7	565.1	492.5	445.2	405.9	383.8	357.6	367.6
12.5°	968.0	899.5	737.3	601.3	488.5	412.0	344.5	281.0	245.8	218.6	219.6
15°	1025.4	935.7	713.1	538.9	419.0	318.3	219.6	176.3	166.2	160.2	162.2
17.5°	1081.8	964.9	675.9	475.4	339.4	202.5	160.2	151.1	146.1	140.0	140.0
20°	1150.3	984.1	629.5	417.0	233.7	150.1	137.0	130.9	122.9	114.8	115.8
22.5°	1216.8	1000.2	576.1	342.5	157.1	129.9	114.8	106.8	99.7	91.7	91.7
25°	1283.2	1005.2	506.6	245.8	126.9	103.7	89.6	78.6	71.5	64.5	65.5
27.5°	1328.6	974.0	441.2	157.1	101.7	78.6	62.4	53.4	47.3	40.3	40.3
30°	1354.7	916.6	370.7	110.8	76.6	53.4	37.3	28.2	22.2	17.1	16.1
32.5°	1380.9	870.3	291.1	84.6	50.4	28.2	14.1	5.0	0.0	0.0	0.0
35°	1433.3	817.9	195.4	47.3	17.1	1.0	0.0	0.0	0.0	0.0	0.0
37.5°	1466.5	745.4	89.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1550.1	709.1	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1686.1	683.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1835.2	673.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2033.6	701.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2243.1	774.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2472.8	844.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2673.2	927.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3041.9	1125.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3703.6	1512.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4449.0	1801.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4722.0	1793.9	19.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4673.6	1695.2	19.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4422.8	1505.8	17.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3798.3	1243.9	17.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2895.8	969.0	16.1	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1747.6	515.7	13.1	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	696.0	181.3	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	188.4	54.4	6.0	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.4	20.1	5.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	8.1	4.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	3.0	2.0	2.0	1.0	1.0	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)