

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: P482717

Luminaire Tested: **IFLD-S-SA2D-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482717  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

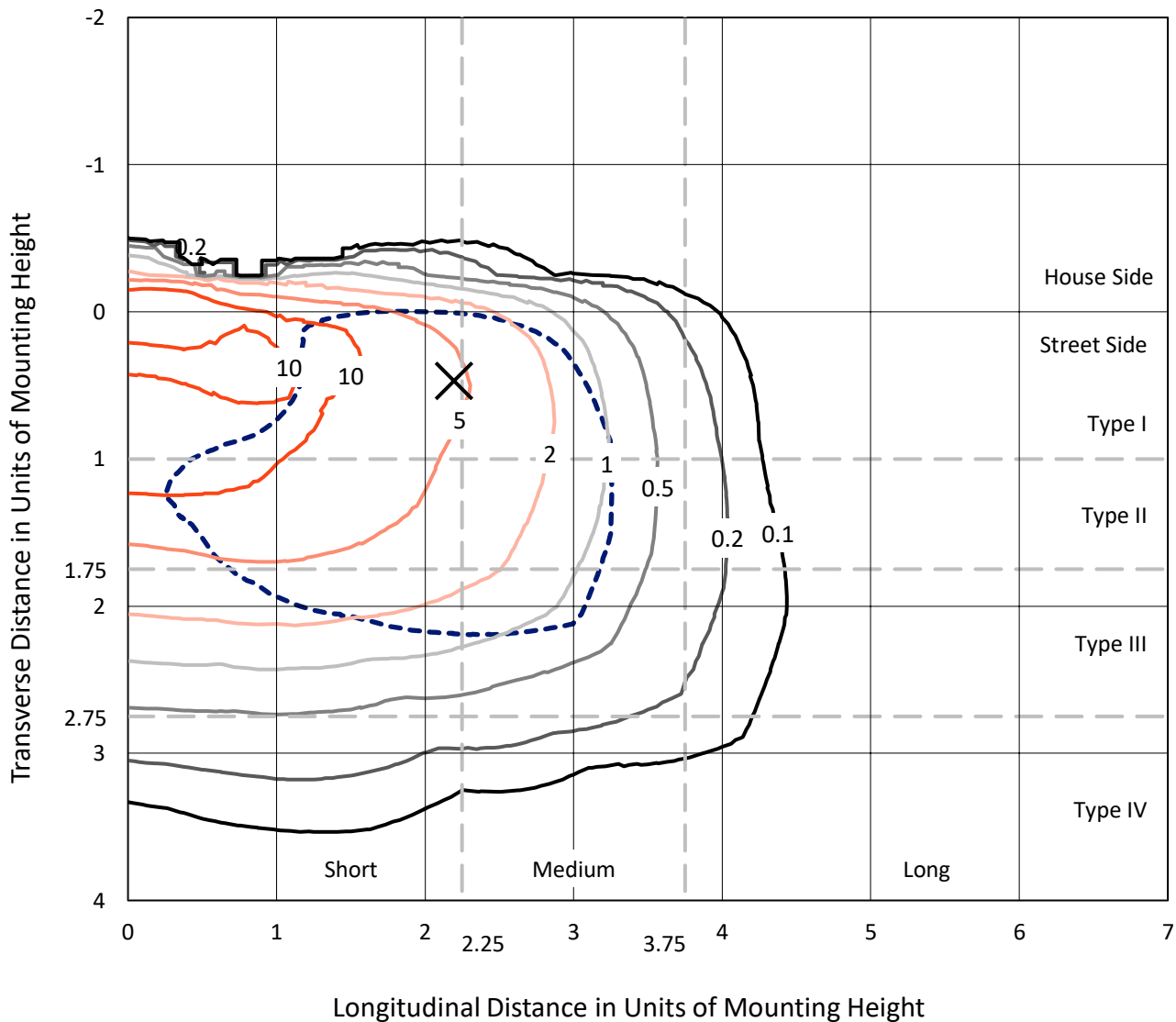
Lumens per Lamp: N/A  
Luminaire Lumens: 9375.5 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

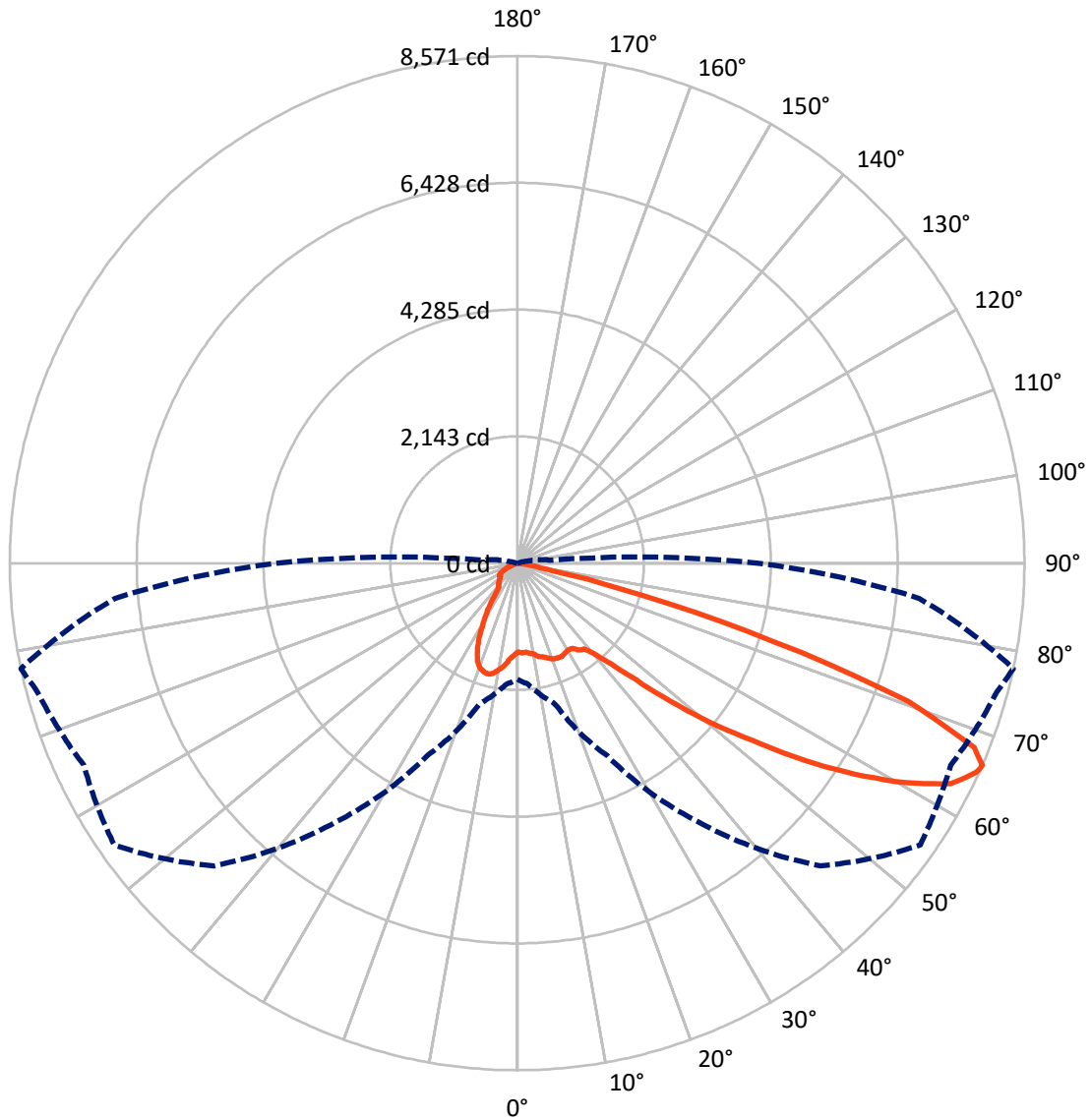
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	659.1	0.0	659.1
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	8716.4	0.0	8716.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	9375.5	0.0	9375.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.4	1.5
10°-20°	310.1	3.3
20°-30°	443.2	4.7
30°-40°	758.7	8.1
40°-50°	1369.4	14.6
50°-60°	2341.9	25.0
60°-70°	2882.5	30.7
70°-80°	1089.7	11.6
80°-90°	42.6	0.5
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°	9375.5	100.0
0°-180°	9375.5	100.0

**Coefficient of Utilization**

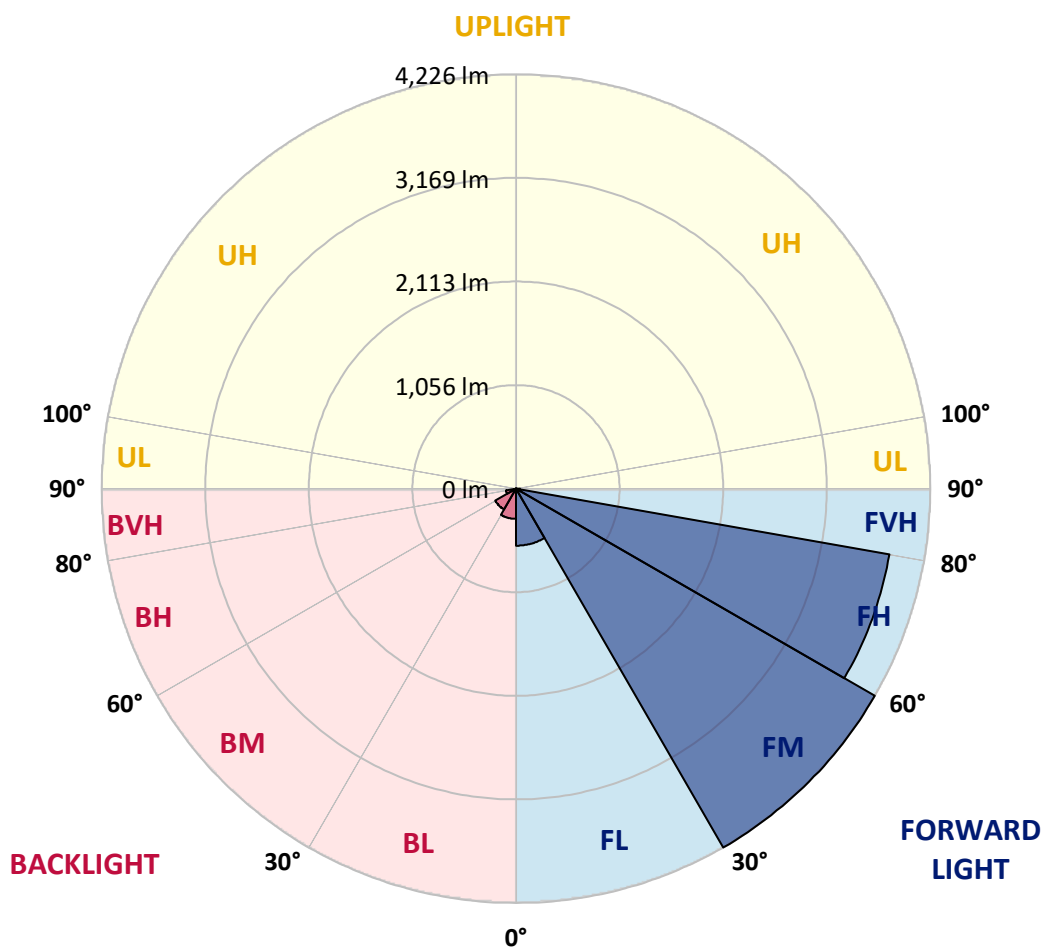


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.0	6.2			
FM (30°-60°)	4225.7	45.1			
FH (60°-80°)	3867.7	41.3			G2/5000
FVH (80°-90°)	40.9	0.4			G1/100
BL (0°-30°)	308.7	3.3	B1/500		
BM (30°-60°)	244.3	2.6	B1/1000		
BH (60°-80°)	104.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7
2.5°	1381.2	1368.5	1381.2	1399.7	1409.6	1418.1	1447.8	1473.3	1500.2	1518.7	1513.0
5°	1280.7	1304.7	1307.6	1313.2	1328.8	1379.8	1396.8	1440.7	1507.3	1513.0	1538.5
7.5°	1201.3	1194.2	1212.7	1249.5	1289.2	1318.9	1368.5	1445.0	1514.4	1538.5	1588.1
10°	1086.6	1100.7	1120.6	1157.4	1205.6	1279.2	1367.1	1452.1	1551.2	1559.7	1651.8
12.5°	1024.2	1010.1	1041.2	1079.5	1161.7	1229.7	1337.3	1439.3	1573.9	1620.7	1726.9
15°	973.2	980.3	1010.1	1035.6	1103.6	1190.0	1316.1	1470.5	1612.2	1644.7	1806.2
17.5°	952.0	947.7	970.4	995.9	1079.5	1177.2	1307.6	1471.9	1646.2	1688.7	1860.1
20°	961.9	970.4	963.3	987.4	1039.8	1139.0	1320.3	1498.8	1671.7	1729.7	1918.2
22.5°	1117.7	1106.4	1049.7	1004.4	1007.2	1123.4	1310.4	1515.8	1694.3	1741.1	1957.8
25°	1524.3	1463.4	1323.2	1148.9	1034.2	1080.9	1299.1	1510.2	1690.1	1748.2	1981.9
27.5°	1933.7	1881.3	1743.9	1473.3	1143.2	1063.9	1259.4	1514.4	1668.8	1722.7	1942.2
30°	2365.8	2394.1	2190.1	1868.6	1429.4	1157.4	1233.9	1491.7	1654.7	1700.0	1950.7
32.5°	2809.2	2797.9	2674.6	2326.1	1838.8	1364.2	1275.0	1514.4	1673.1	1717.0	2000.3
35°	3156.3	3116.6	2992.0	2677.5	2177.4	1675.9	1416.7	1622.1	1753.8	1806.2	2071.1
37.5°	3327.7	3344.7	3272.5	2999.1	2548.6	1964.9	1593.7	1622.1	1779.3	1840.2	2185.9
40°	3460.9	3511.9	3485.0	3397.1	2916.9	2290.7	1789.2	1722.7	1908.2	2023.0	2401.2
42.5°	3621.0	3596.9	3755.6	3674.8	3398.6	2701.6	2132.1	1962.1	2212.8	2323.3	2724.2
45°	3706.0	3798.1	3918.5	4021.9	3844.8	3214.4	2579.7	2385.6	2678.9	2819.1	3204.5
47.5°	3924.1	3961.0	4156.5	4286.8	4207.5	3800.9	3259.7	3004.7	3265.4	3486.4	3754.1
50°	4051.6	4002.0	4275.5	4473.8	4519.1	4286.8	3868.9	3670.6	3962.4	4244.3	4268.4
52.5°	3939.7	4081.4	4354.8	4710.4	4836.5	4720.3	4584.3	4497.9	4703.3	4964.0	4847.8
55°	3547.3	3643.6	4309.5	4969.6	5376.2	5322.4	5448.5	5391.8	5598.6	5874.9	5525.0
57.5°	3231.4	3351.8	3936.9	5104.2	5879.1	6037.8	6196.4	6161.0	6410.4	6729.1	6098.7
60°	3034.5	3103.9	3667.7	5070.2	6176.6	6777.3	7135.7	6886.4	7292.9	7536.6	6547.8
62.5°	2693.1	2737.0	3275.3	4619.7	6265.9	7300.0	7907.8	7569.2	7921.9	8219.4	6870.8
65°	2159.0	2278.0	2722.8	3945.4	5676.5	7396.4	8389.4	7991.3	8332.8	8528.3	6968.5
66°	1964.9	2051.3	2459.3	3588.4	5340.8	7236.3	8308.7	8079.2	8392.3	8570.8	6818.4
67.5°	1630.6	1705.7	2030.1	3079.8	4653.7	6883.5	8365.3	8019.7	8437.6	8328.5	6617.2
70°	1079.5	1127.7	1388.3	2082.5	3241.3	5631.2	7759.0	7555.0	7417.6	7008.2	5173.6
72.5°	504.3	573.7	867.0	1262.2	1901.2	3939.7	6326.8	6053.4	5202.0	4547.5	3264.0
75°	228.1	259.2	476.0	723.9	852.8	2041.4	4081.4	3686.1	2589.6	2150.5	1429.4
77.5°	123.2	140.2	232.3	344.2	310.2	715.4	2020.1	1680.2	816.0	597.8	415.1
80°	94.9	111.9	194.1	196.9	114.7	185.6	750.8	519.9	204.0	154.4	99.2
82.5°	49.6	70.8	153.0	127.5	58.1	75.1	232.3	144.5	63.7	51.0	42.5
85°	19.8	31.2	86.4	85.0	34.0	25.5	65.2	43.9	25.5	21.2	19.8
87.5°	1.4	1.4	46.7	32.6	21.2	7.1	9.9	9.9	12.7	11.3	14.2
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°	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7
2.5°	1538.5	1555.5	1558.3	1605.1	1615.0	1605.1	1630.6	1626.3	1637.7	1629.2	1613.6
5°	1573.9	1598.0	1644.7	1680.2	1680.2	1651.8	1629.2	1599.4	1555.5	1544.2	1535.7
7.5°	1634.8	1711.3	1753.8	1731.2	1685.8	1579.6	1432.2	1324.6	1233.9	1199.9	1184.3
10°	1742.5	1785.0	1834.6	1742.5	1554.1	1328.8	1080.9	918.0	790.5	762.2	740.9
12.5°	1811.9	1879.9	1908.2	1680.2	1310.4	974.7	705.5	521.3	432.1	364.1	352.7
15°	1902.6	1980.5	1922.4	1511.6	1032.7	638.9	365.5	228.1	185.6	174.2	174.2
17.5°	1964.9	2049.9	1864.3	1301.9	732.4	340.0	181.3	157.2	154.4	155.8	153.0
20°	2074.0	2125.0	1776.5	1058.2	437.7	174.2	145.9	140.2	137.4	141.7	138.8
22.5°	2115.1	2161.8	1633.4	766.4	196.9	116.2	109.1	104.8	107.7	106.2	104.8
25°	2112.2	2136.3	1398.2	439.2	58.1	45.3	41.1	41.1	38.2	39.7	38.2
27.5°	2133.5	2074.0	1134.7	130.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2144.8	1973.4	807.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2150.5	1921.0	519.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2194.4	1816.2	222.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2224.1	1681.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2347.4	1639.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2507.5	1559.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2729.9	1442.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3024.6	1372.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3244.1	1263.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3523.2	1198.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3854.7	1201.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4156.5	1181.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4310.9	1010.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4278.3	817.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4165.0	641.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4087.0	568.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3850.5	454.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3064.2	311.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1949.3	191.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	898.2	87.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	281.9	53.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.7	34.0	11.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.2	24.1	9.9	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.1	9.9	4.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	5.7	2.8	2.8	1.4	0.0	0.0	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)