

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: P482794

Luminaire Tested: **IFLD-S-SA2C-735-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482794  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

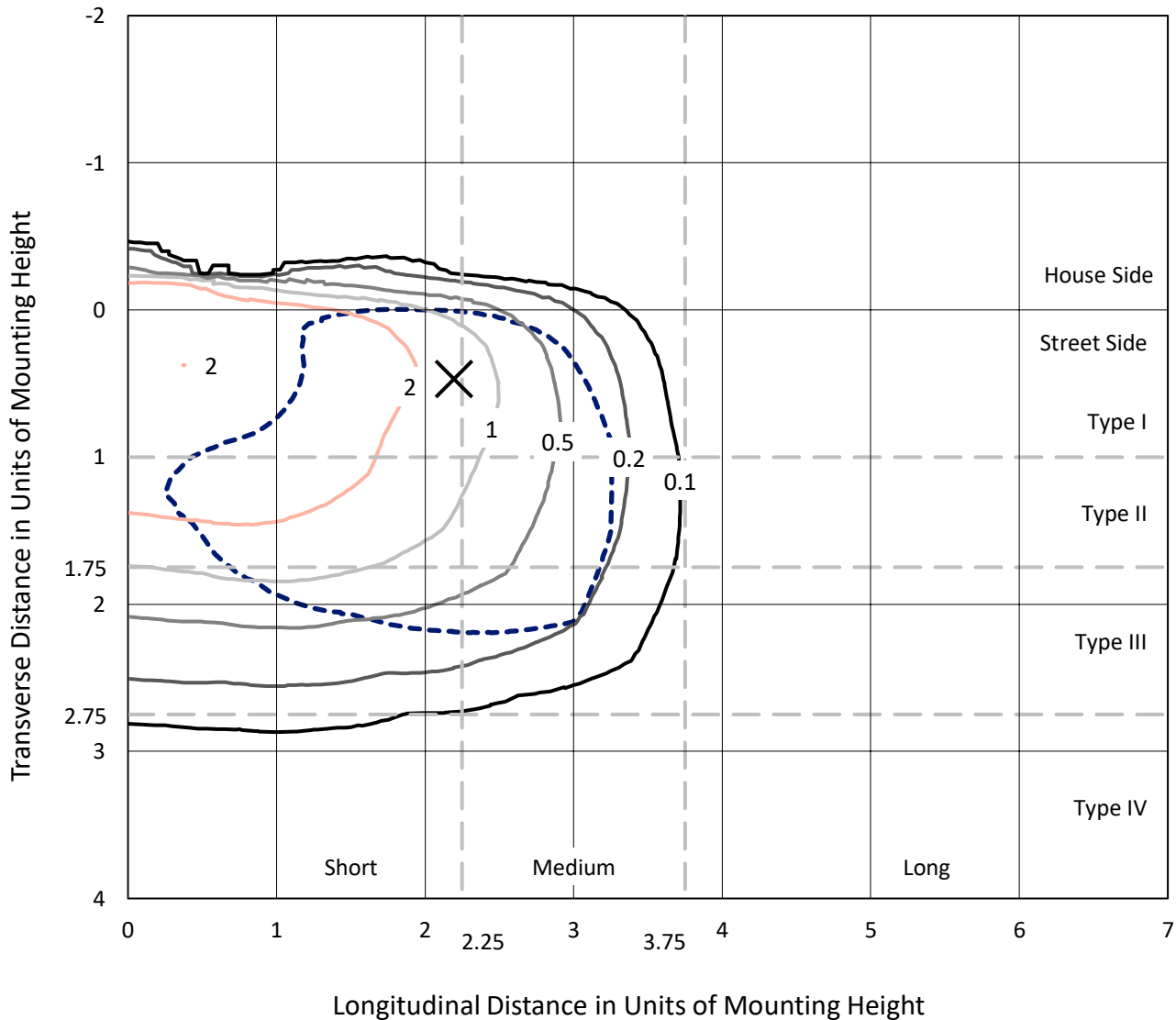
Lumens per Lamp: N/A  
Luminaire Lumens: 10048.9 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

REPORT NUMBER: P482794  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

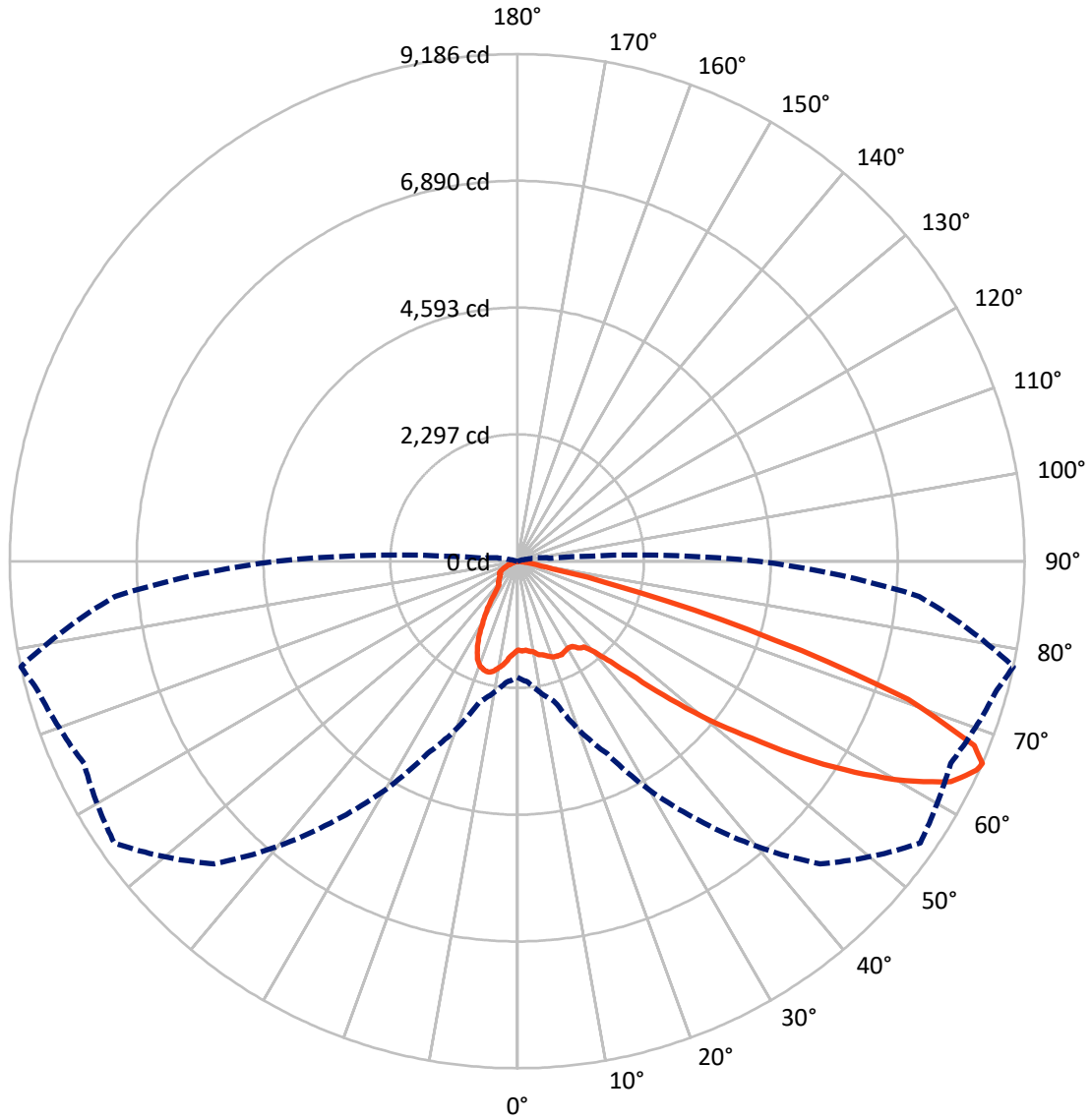
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P482794  
CATALOG NUMBER: IFLD-S-SA2C-735-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P482794  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	706.5	0.0	706.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	9342.4	0.0	9342.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	10048.9	0.0	10048.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	1.5
10°-20°	332.4	3.3
20°-30°	475.1	4.7
30°-40°	813.2	8.1
40°-50°	1467.8	14.6
50°-60°	2510.1	25.0
60°-70°	3089.5	30.7
70°-80°	1168.0	11.6
80°-90°	45.6	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°	10048.9	100.0
0°-180°	10048.9	100.0

**Coefficient of Utilization**

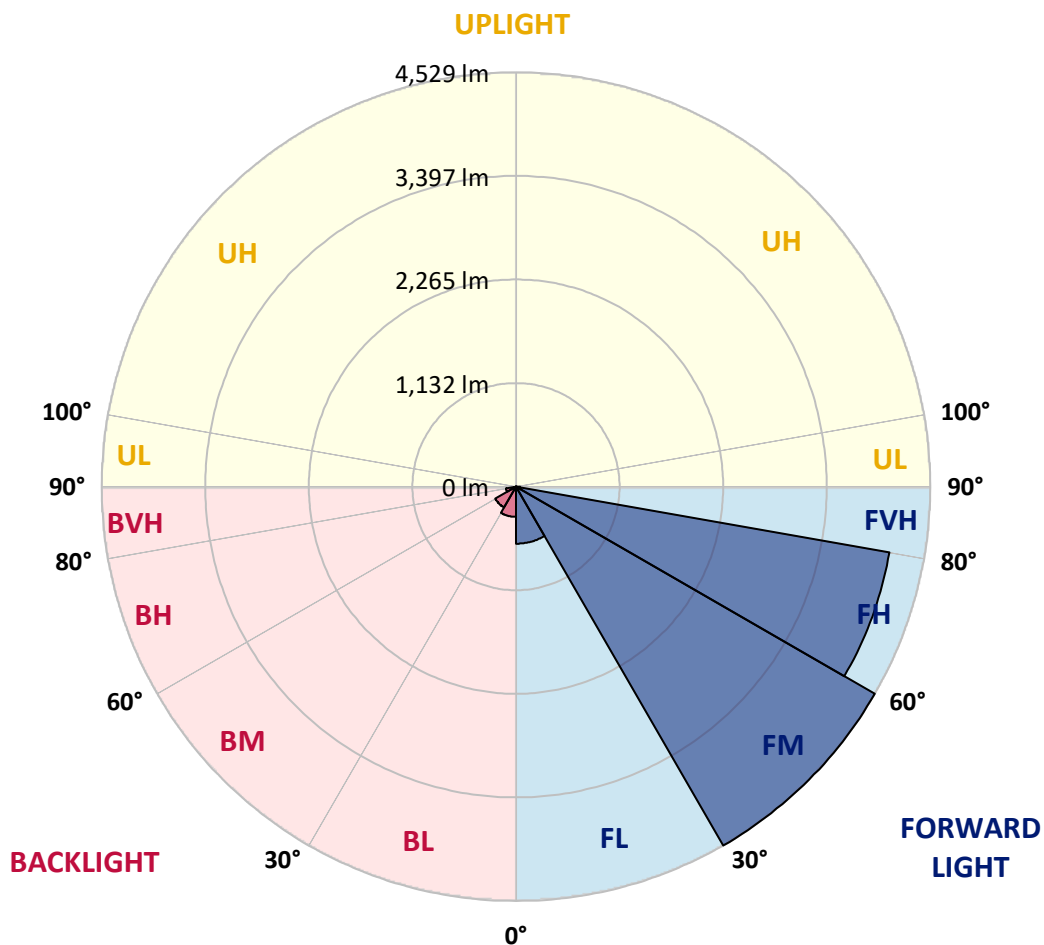


REPORT NUMBER: P482794  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.8	6.2			
FM (30°-60°)	4529.2	45.1			
FH (60°-80°)	4145.5	41.3			G2/5000
FVH (80°-90°)	43.8	0.4			G1/100
BL (0°-30°)	330.9	3.3	B1/500		
BM (30°-60°)	261.8	2.6	B1/1000		
BH (60°-80°)	111.9	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	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





REPORT NUMBER: P482794

CATALOG NUMBER: IFLD-S-SA2C-735-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1480.4	1466.8	1480.4	1500.2	1510.8	1519.9	1551.8	1579.1	1608.0	1627.7	1621.6
5°	1372.6	1398.4	1401.5	1407.6	1424.3	1478.9	1497.1	1544.2	1615.6	1621.6	1649.0
7.5°	1287.6	1280.0	1299.7	1339.2	1381.7	1413.6	1466.8	1548.8	1623.2	1649.0	1702.1
10°	1164.6	1179.8	1201.1	1240.5	1292.2	1371.1	1465.3	1556.4	1662.6	1671.8	1770.5
12.5°	1097.8	1082.6	1116.0	1157.0	1245.1	1318.0	1433.4	1542.7	1686.9	1737.0	1850.9
15°	1043.1	1050.7	1082.6	1109.9	1182.8	1275.5	1410.6	1576.1	1727.9	1762.9	1936.0
17.5°	1020.4	1015.8	1040.1	1067.4	1157.0	1261.8	1401.5	1577.6	1764.4	1809.9	1993.7
20°	1031.0	1040.1	1032.5	1058.3	1114.5	1220.8	1415.1	1606.5	1791.7	1854.0	2055.9
22.5°	1198.0	1185.9	1125.1	1076.5	1079.6	1204.1	1404.5	1624.7	1816.0	1866.1	2098.4
25°	1633.8	1568.5	1418.2	1231.4	1108.4	1158.5	1392.4	1618.6	1811.4	1873.7	2124.2
27.5°	2072.6	2016.4	1869.1	1579.1	1225.3	1140.3	1349.9	1623.2	1788.7	1846.4	2081.7
30°	2535.7	2566.1	2347.4	2002.8	1532.1	1240.5	1322.5	1598.9	1773.5	1822.1	2090.8
32.5°	3011.0	2998.8	2866.7	2493.2	1970.9	1462.2	1366.6	1623.2	1793.2	1840.3	2144.0
35°	3383.0	3340.5	3206.9	2869.8	2333.8	1796.3	1518.4	1738.6	1879.8	1936.0	2219.9
37.5°	3566.7	3584.9	3507.5	3214.4	2731.6	2106.0	1708.2	1738.6	1907.1	1972.4	2342.9
40°	3709.4	3764.1	3735.3	3641.1	3126.4	2455.2	1917.7	1846.4	2045.3	2168.3	2573.7
42.5°	3881.0	3855.2	4025.3	3938.7	3642.6	2895.6	2285.2	2103.0	2371.7	2490.2	2919.9
45°	3972.1	4070.8	4199.9	4310.7	4120.9	3445.2	2765.0	2557.0	2871.3	3021.6	3434.6
47.5°	4206.0	4245.4	4455.0	4594.7	4509.6	4073.9	3493.8	3220.5	3499.9	3736.8	4023.8
50°	4342.6	4289.5	4582.5	4795.1	4843.7	4594.7	4146.7	3934.2	4247.0	4549.1	4574.9
52.5°	4222.7	4374.5	4667.6	5048.7	5183.8	5059.3	4913.5	4820.9	5041.1	5320.5	5196.0
55°	3802.1	3905.3	4619.0	5326.5	5762.3	5704.6	5839.8	5779.0	6000.7	6296.8	5921.7
57.5°	3463.5	3592.5	4219.6	5470.8	6301.3	6471.4	6641.5	6603.5	6870.7	7212.4	6536.7
60°	3252.4	3326.8	3931.1	5434.3	6620.2	7264.0	7648.2	7380.9	7816.7	8077.9	7018.0
62.5°	2886.5	2933.5	3510.5	4951.5	6715.9	7824.3	8475.7	8112.8	8490.9	8809.7	7364.2
65°	2314.0	2441.6	2918.4	4228.7	6084.2	7927.6	8991.9	8565.3	8931.2	9140.8	7469.0
66°	2106.0	2198.6	2635.9	3846.1	5724.4	7756.0	8905.4	8659.4	8995.0	9186.3	7308.0
67.5°	1747.7	1828.2	2175.9	3301.0	4987.9	7377.9	8966.1	8595.6	9043.6	8926.7	7092.4
70°	1157.0	1208.6	1488.0	2232.0	3474.1	6035.6	8316.3	8097.6	7950.3	7511.5	5545.2
72.5°	540.5	615.0	929.3	1352.9	2037.7	4222.7	6781.2	6488.1	5575.6	4874.1	3498.4
75°	244.5	277.9	510.2	775.9	914.1	2188.0	4374.5	3950.9	2775.6	2304.9	1532.1
77.5°	132.1	150.3	249.0	369.0	332.5	766.8	2165.2	1800.8	874.6	640.8	444.9
80°	101.7	120.0	208.0	211.1	123.0	198.9	804.8	557.3	218.6	165.5	106.3
82.5°	53.1	75.9	164.0	136.7	62.3	80.5	249.0	154.9	68.3	54.7	45.6
85°	21.3	33.4	92.6	91.1	36.4	27.3	69.8	47.1	27.3	22.8	21.3
87.5°	1.5	1.5	50.1	34.9	22.8	7.6	10.6	10.6	13.7	12.1	15.2
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: P482794  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1649.0	1667.2	1670.2	1720.3	1731.0	1720.3	1747.7	1743.1	1755.3	1746.2	1729.5
5°	1686.9	1712.8	1762.9	1800.8	1800.8	1770.5	1746.2	1714.3	1667.2	1655.1	1645.9
7.5°	1752.2	1834.2	1879.8	1855.5	1806.9	1693.0	1535.1	1419.7	1322.5	1286.1	1269.4
10°	1867.6	1913.2	1966.3	1867.6	1665.7	1424.3	1158.5	983.9	847.3	816.9	794.1
12.5°	1942.0	2014.9	2045.3	1800.8	1404.5	1044.7	756.2	558.8	463.1	390.2	378.1
15°	2039.2	2122.7	2060.5	1620.1	1106.9	684.8	391.7	244.5	198.9	186.8	186.8
17.5°	2106.0	2197.1	1998.2	1395.4	785.0	364.4	194.4	168.5	165.5	167.0	164.0
20°	2222.9	2277.6	1904.1	1134.2	469.2	186.8	156.4	150.3	147.3	151.8	148.8
22.5°	2267.0	2317.1	1750.7	821.5	211.1	124.5	116.9	112.4	115.4	113.9	112.4
25°	2263.9	2289.7	1498.7	470.7	62.3	48.6	44.0	44.0	41.0	42.5	41.0
27.5°	2286.7	2222.9	1216.2	139.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2298.9	2115.1	865.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2304.9	2058.9	557.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2352.0	1946.6	238.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2383.9	1802.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2516.0	1756.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2687.6	1671.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2926.0	1545.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3241.8	1471.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3477.1	1354.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3776.3	1284.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4131.6	1287.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4455.0	1266.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4620.5	1082.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4585.6	876.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4464.1	687.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4380.6	608.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4127.0	487.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3284.3	334.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2089.3	205.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	962.7	94.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	302.2	57.7	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.0	36.4	12.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.0	25.8	10.6	4.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	10.6	4.6	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.8	6.1	3.0	3.0	1.5	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)