

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: P482797

Luminaire Tested: **IFLD-S-SA3A-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

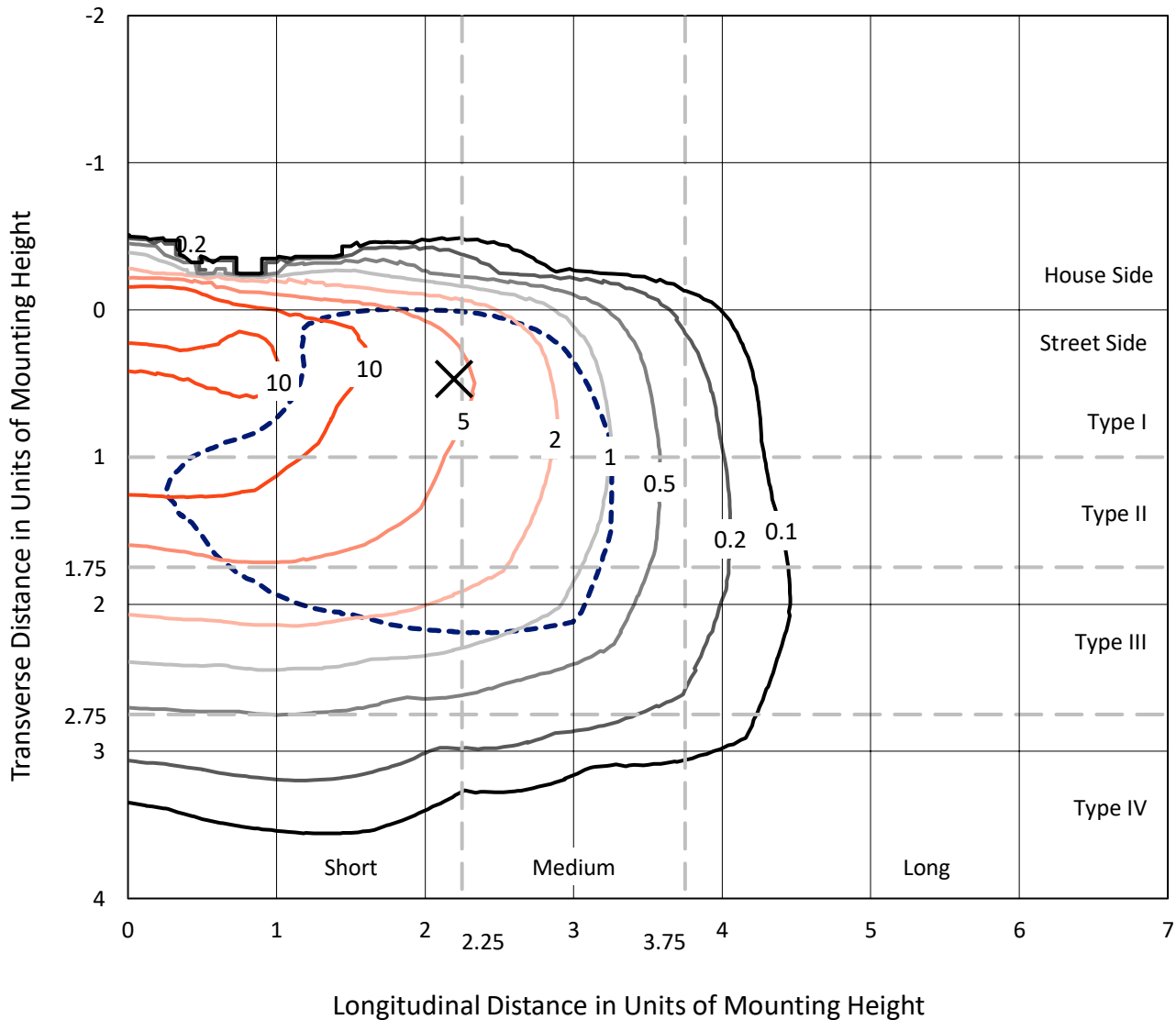
Lumens per Lamp: N/A
Luminaire Lumens: 9727.3 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P482797
 CATALOG NUMBER: IFLD-S-SA3A-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

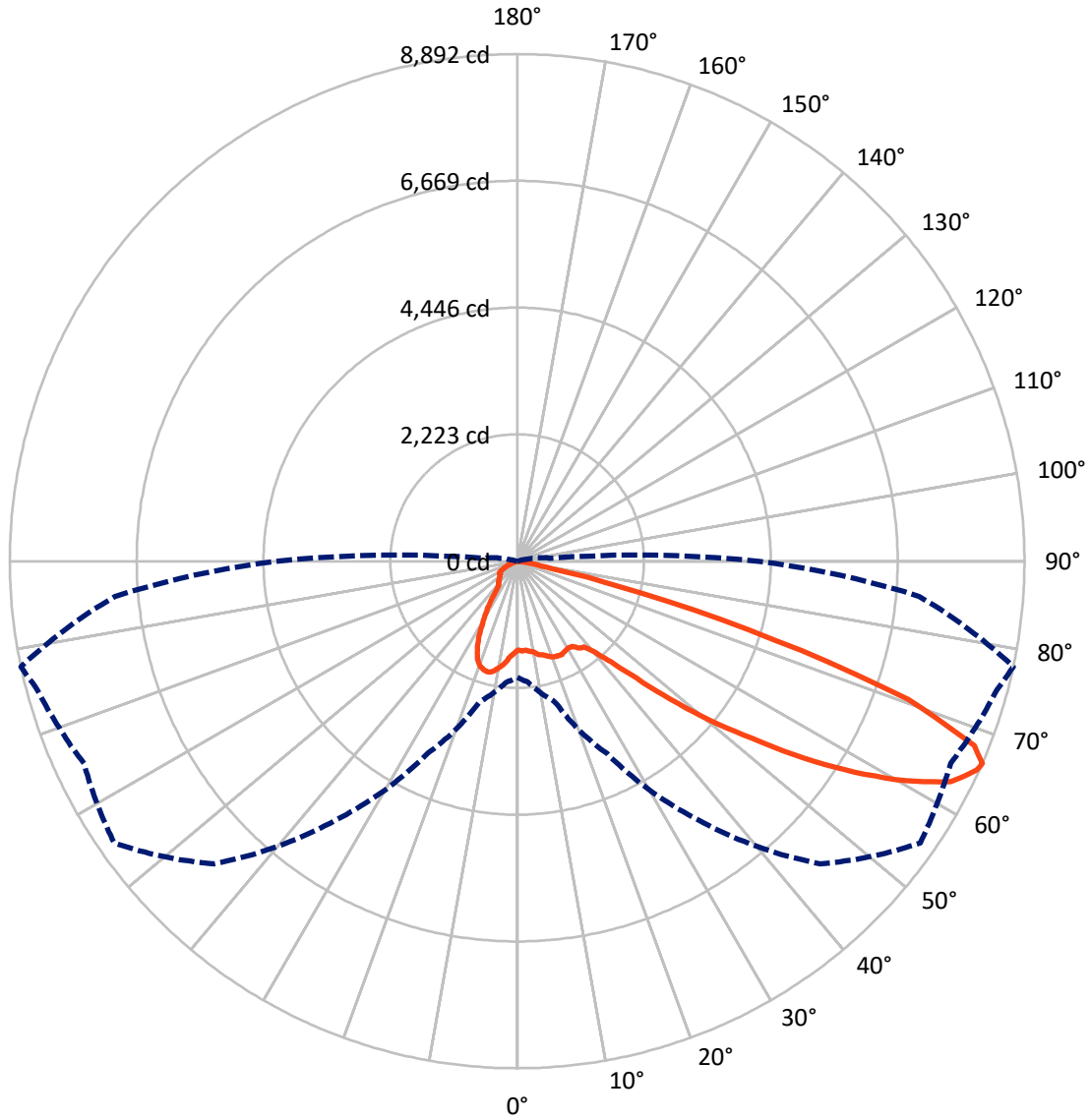
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Short - N/A

REPORT NUMBER: P482797
CATALOG NUMBER: IFLD-S-SA3A-735-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482797
 CATALOG NUMBER: IFLD-S-SA3A-735-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	683.9	0.0	683.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	9043.4	0.0	9043.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	9727.3	0.0	9727.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.5
10°-20°	321.7	3.3
20°-30°	459.9	4.7
30°-40°	787.2	8.1
40°-50°	1420.8	14.6
50°-60°	2429.7	25.0
60°-70°	2990.6	30.7
70°-80°	1130.6	11.6
80°-90°	44.2	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°	9727.3	100.0
0°-180°	9727.3	100.0

Coefficient of Utilization



REPORT NUMBER: P482797

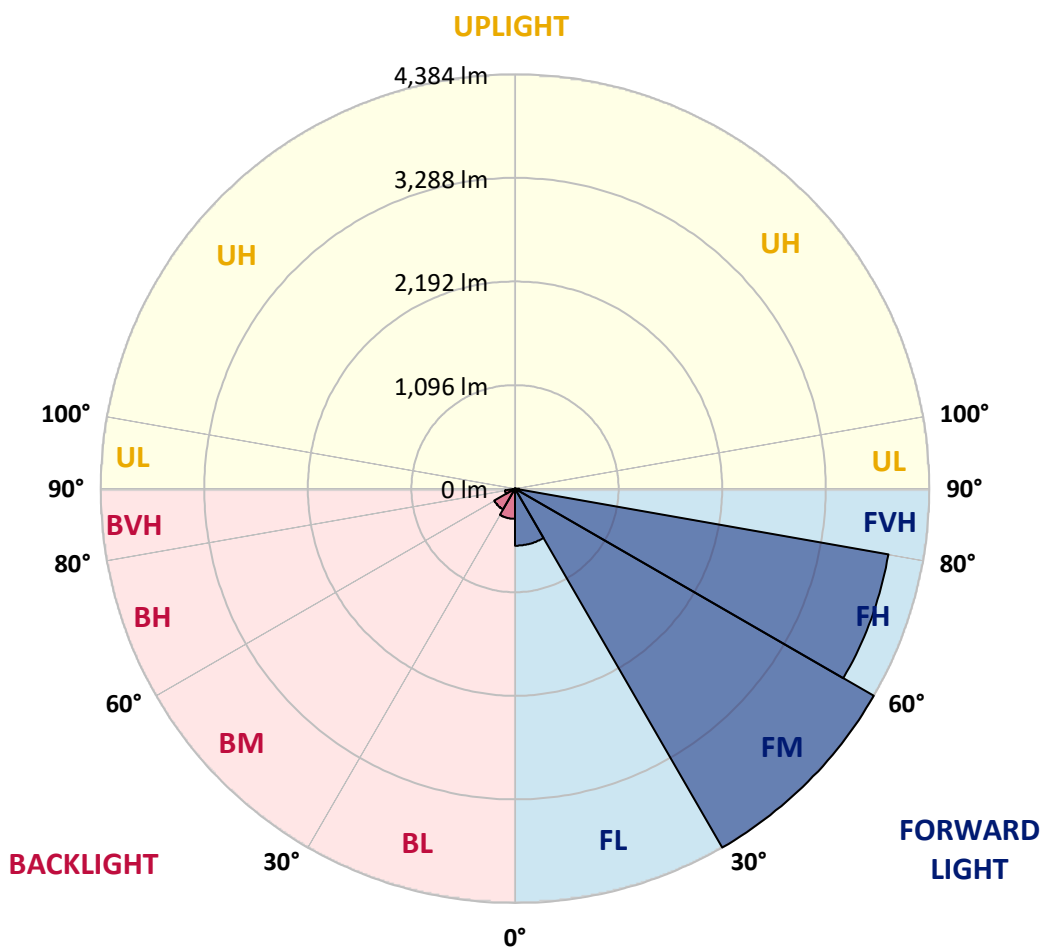
CATALOG NUMBER: IFLD-S-SA3A-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.9	6.2			
FM (30°-60°)	4384.3	45.1			
FH (60°-80°)	4012.9	41.3			G2/5000
FVH (80°-90°)	42.4	0.4			G1/100
BL (0°-30°)	320.3	3.3	B1/500		
BM (30°-60°)	253.5	2.6	B1/1000		
BH (60°-80°)	108.3	1.1	B0/110		G0/110
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: P482797

CATALOG NUMBER: IFLD-S-SA3A-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1433.1	1419.8	1433.1	1452.2	1462.5	1471.3	1502.1	1528.6	1556.5	1575.6	1569.7
5°	1328.7	1353.7	1356.6	1362.5	1378.7	1431.6	1449.2	1494.8	1563.9	1569.7	1596.2
7.5°	1246.4	1239.0	1258.2	1296.4	1337.5	1368.4	1419.8	1499.2	1571.2	1596.2	1647.6
10°	1127.3	1142.0	1162.6	1200.8	1250.8	1327.2	1418.4	1506.5	1609.4	1618.3	1713.8
12.5°	1062.7	1048.0	1080.3	1120.0	1205.2	1275.8	1387.5	1493.3	1633.0	1681.5	1791.7
15°	1009.8	1017.1	1048.0	1074.4	1145.0	1234.6	1365.4	1525.7	1672.6	1706.4	1874.0
17.5°	987.7	983.3	1006.8	1033.3	1120.0	1221.4	1356.6	1527.1	1707.9	1752.0	1929.9
20°	998.0	1006.8	999.5	1024.5	1078.8	1181.7	1369.9	1555.1	1734.4	1794.6	1990.1
22.5°	1159.7	1147.9	1089.1	1042.1	1045.0	1165.6	1359.6	1572.7	1757.9	1806.4	2031.3
25°	1581.5	1518.3	1372.8	1192.0	1073.0	1121.5	1347.8	1566.8	1753.5	1813.7	2056.3
27.5°	2006.3	1951.9	1809.3	1528.6	1186.1	1103.8	1306.7	1571.2	1731.4	1787.3	2015.1
30°	2454.6	2484.0	2272.3	1938.7	1483.0	1200.8	1280.2	1547.7	1716.7	1763.8	2023.9
32.5°	2914.6	2902.9	2775.0	2413.4	1907.8	1415.4	1322.8	1571.2	1735.8	1781.4	2075.4
35°	3274.7	3233.6	3104.2	2777.9	2259.1	1738.8	1469.8	1682.9	1819.6	1874.0	2148.9
37.5°	3452.6	3470.2	3395.2	3111.6	2644.2	2038.6	1653.5	1682.9	1846.1	1909.3	2267.9
40°	3590.7	3643.6	3615.7	3524.6	3026.3	2376.7	1856.4	1787.3	1979.8	2098.9	2491.3
42.5°	3756.8	3731.8	3896.4	3812.7	3526.1	2802.9	2212.1	2035.7	2295.8	2410.5	2826.4
45°	3845.0	3940.5	4065.5	4172.8	3989.0	3335.0	2676.5	2475.1	2779.4	2924.9	3324.7
47.5°	4071.4	4109.6	4312.4	4447.6	4365.3	3943.5	3382.0	3117.5	3387.9	3617.2	3895.0
50°	4203.6	4152.2	4435.9	4641.6	4688.7	4447.6	4014.0	3808.3	4111.0	4403.5	4428.5
52.5°	4087.5	4234.5	4518.2	4887.1	5017.9	4897.4	4756.3	4666.6	4879.7	5150.2	5029.7
55°	3680.4	3780.3	4471.1	5156.1	5577.9	5522.1	5652.9	5594.1	5808.7	6095.3	5732.2
57.5°	3352.6	3477.6	4084.6	5295.7	6099.7	6264.3	6428.9	6392.2	6650.9	6981.6	6327.5
60°	3148.3	3220.3	3805.3	5260.4	6408.3	7031.5	7403.4	7144.7	7566.5	7819.4	6793.4
62.5°	2794.1	2839.7	3398.2	4793.0	6500.9	7573.9	8204.4	7853.2	8219.1	8527.8	7128.5
65°	2240.0	2363.4	2825.0	4093.4	5889.5	7673.8	8704.2	8291.2	8645.4	8848.2	7230.0
66°	2038.6	2128.3	2551.6	3723.0	5541.2	7507.8	8620.4	8382.3	8707.1	8892.3	7074.2
67.5°	1691.7	1769.6	2106.2	3195.4	4828.3	7141.8	8679.2	8320.6	8754.1	8641.0	6865.5
70°	1120.0	1170.0	1440.4	2160.6	3362.9	5842.5	8050.1	7838.5	7695.9	7271.1	5367.7
72.5°	523.2	595.3	899.5	1309.6	1972.5	4087.5	6564.1	6280.5	5397.1	4718.1	3386.4
75°	236.6	269.0	493.9	751.1	884.8	2118.0	4234.5	3824.4	2686.8	2231.2	1483.0
77.5°	127.9	145.5	241.0	357.2	321.9	742.3	2095.9	1743.2	846.6	620.3	430.7
80°	98.5	116.1	201.4	204.3	119.1	192.5	779.0	539.4	211.7	160.2	102.9
82.5°	51.4	73.5	158.7	132.3	60.3	77.9	241.0	149.9	66.1	52.9	44.1
85°	20.6	32.3	89.7	88.2	35.3	26.5	67.6	45.6	26.5	22.0	20.6
87.5°	1.5	1.5	48.5	33.8	22.0	7.3	10.3	10.3	13.2	11.8	14.7
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: P482797
 CATALOG NUMBER: IFLD-S-SA3A-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1596.2	1613.8	1616.8	1665.3	1675.6	1665.3	1691.7	1687.3	1699.1	1690.3	1674.1
5°	1633.0	1657.9	1706.4	1743.2	1743.2	1713.8	1690.3	1659.4	1613.8	1602.1	1593.3
7.5°	1696.2	1775.5	1819.6	1796.1	1749.1	1638.8	1486.0	1374.3	1280.2	1244.9	1228.8
10°	1807.9	1852.0	1903.4	1807.9	1612.4	1378.7	1121.5	952.4	820.2	790.8	768.7
12.5°	1879.9	1950.4	1979.8	1743.2	1359.6	1011.2	732.0	540.9	448.3	377.7	366.0
15°	1973.9	2054.8	1994.5	1568.3	1071.5	662.9	379.2	236.6	192.5	180.8	180.8
17.5°	2038.6	2126.8	1934.3	1350.7	759.9	352.8	188.1	163.1	160.2	161.7	158.7
20°	2151.8	2204.7	1843.1	1097.9	454.2	180.8	151.4	145.5	142.6	147.0	144.0
22.5°	2194.4	2242.9	1694.7	795.2	204.3	120.5	113.2	108.8	111.7	110.2	108.8
25°	2191.5	2216.5	1450.7	455.6	60.3	47.0	42.6	42.6	39.7	41.2	39.7
27.5°	2213.5	2151.8	1177.3	135.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2225.3	2047.4	837.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2231.2	1993.1	539.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2276.7	1884.3	230.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2307.6	1744.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2435.5	1700.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2601.6	1618.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2832.3	1496.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3138.0	1424.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3365.8	1311.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3655.4	1243.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3999.3	1246.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4312.4	1225.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4472.6	1048.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4438.8	848.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4321.2	665.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4240.4	589.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3994.9	471.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3179.2	323.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2022.4	198.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	931.9	91.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	292.5	55.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.4	35.3	11.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.7	25.0	10.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.0	10.3	4.4	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	5.9	2.9	2.9	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)