

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: P482408

Luminaire Tested: **IFLD-S-SA3B-735-U-T3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482408  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-735-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

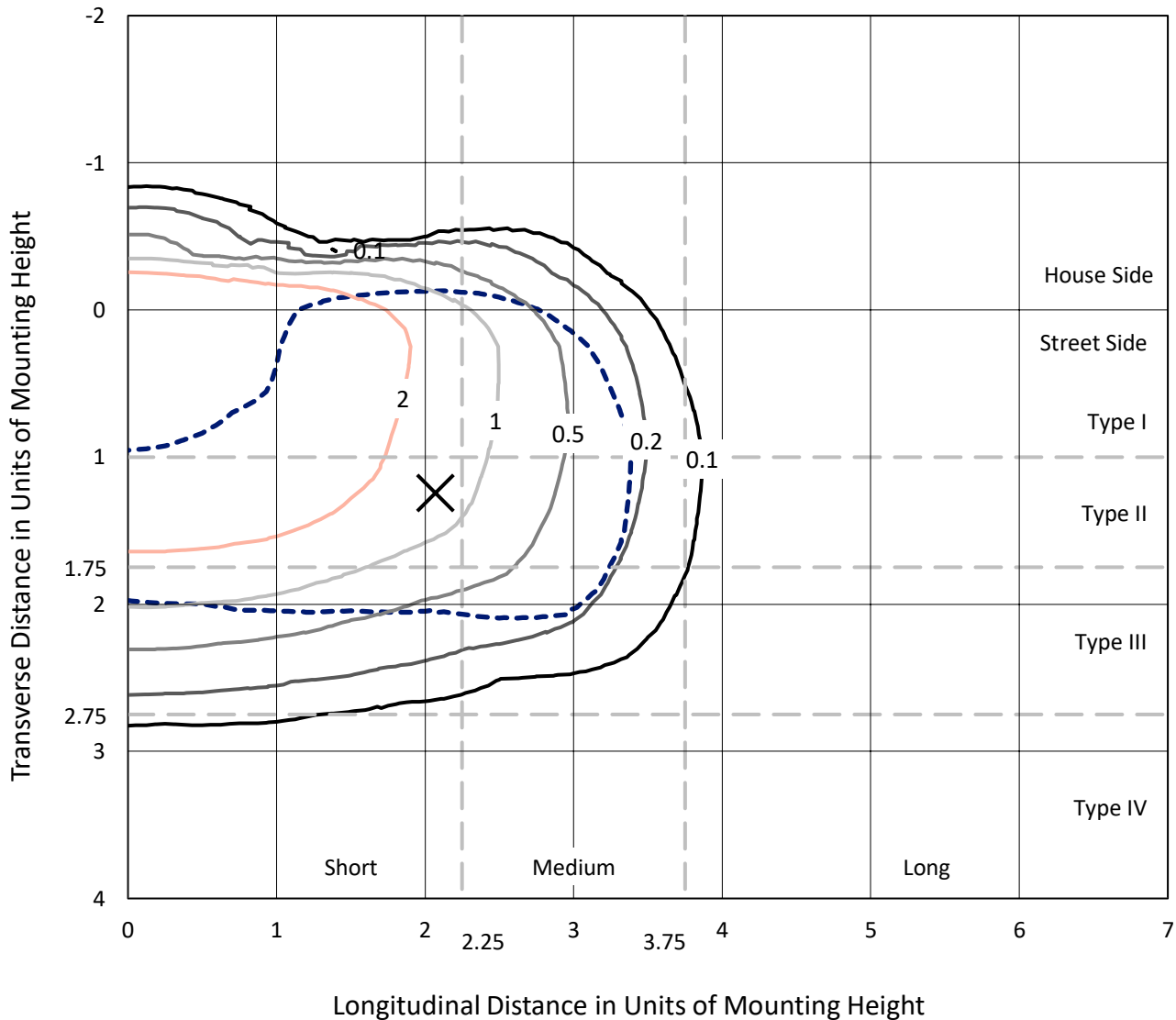
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12453.2 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 122.4  
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

REPORT NUMBER: P482408  
 CATALOG NUMBER: IFLD-S-SA3B-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

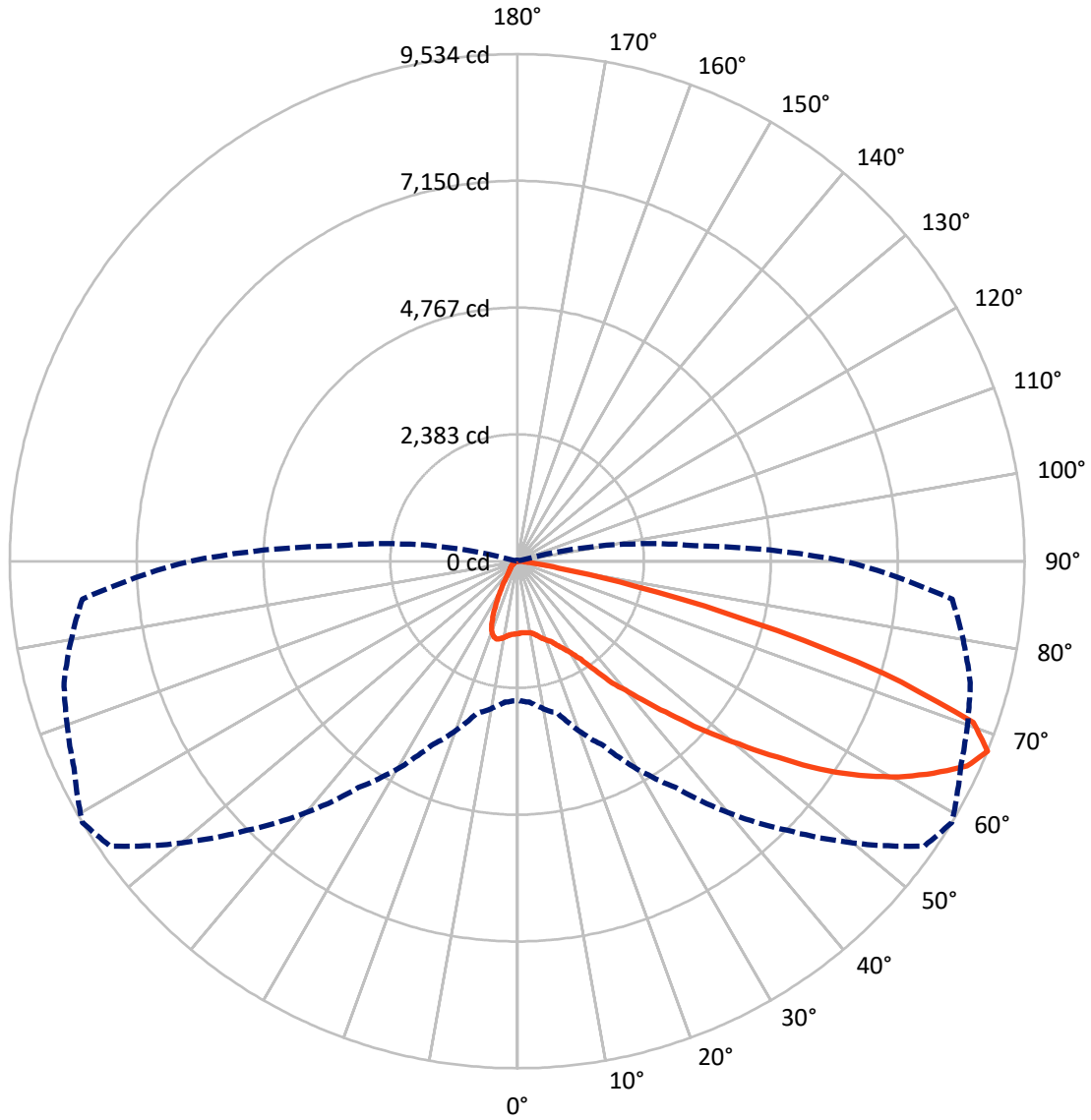
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P482408  
CATALOG NUMBER: IFLD-S-SA3B-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA3B-735-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1462.8	0.0	1462.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	10990.4	0.0	10990.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	12453.2	0.0	12453.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.7	1.0
10°-20°	374.8	3.0
20°-30°	655.0	5.3
30°-40°	1153.2	9.3
40°-50°	2038.6	16.4
50°-60°	3227.8	25.9
60°-70°	3580.5	28.8
70°-80°	1242.4	10.0
80°-90°	51.2	0.4
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°	12453.2	100.0
0°-180°	12453.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P482408

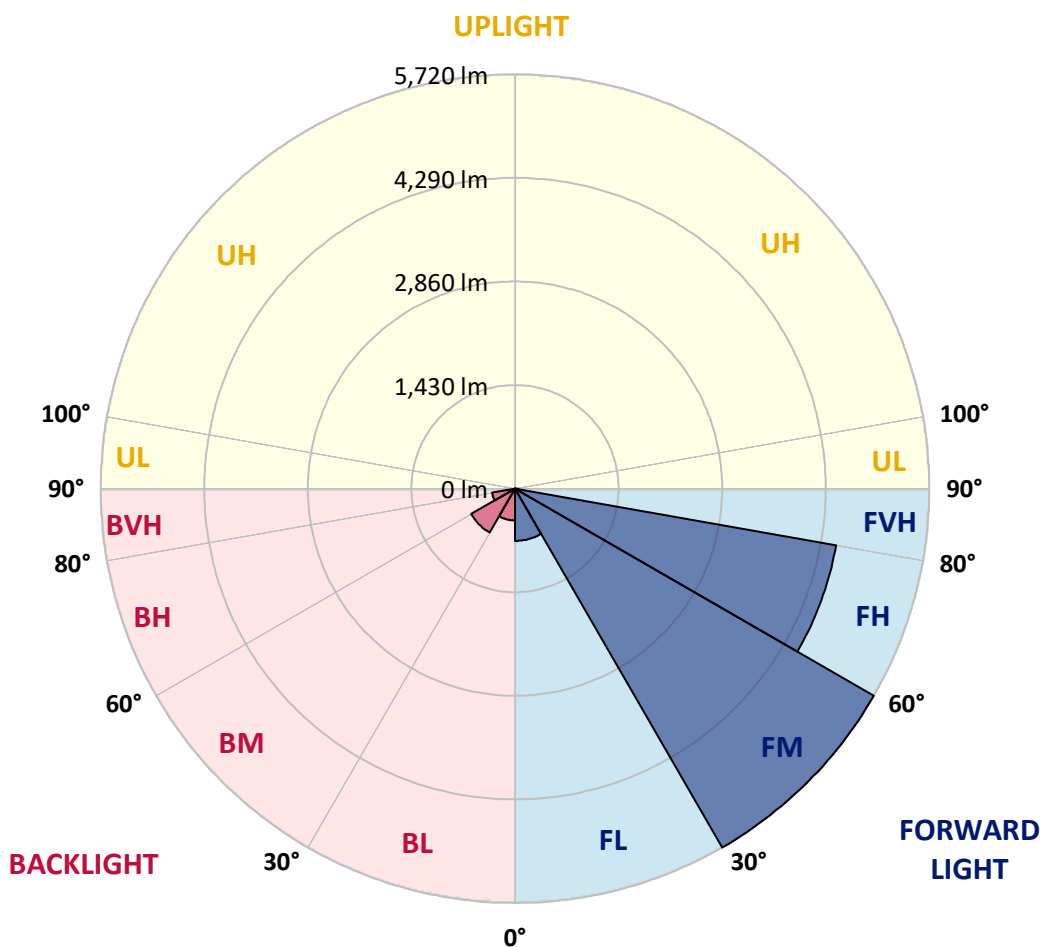
CATALOG NUMBER: IFLD-S-SA3B-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.1	5.8			
FM (30°-60°)	5720.2	45.9			
FH (60°-80°)	4501.2	36.1			G2/5000
FVH (80°-90°)	47.8	0.4			G1/100
BL (0°-30°)	438.4	3.5	B1/500		
BM (30°-60°)	699.4	5.6	B1/1000		
BH (60°-80°)	321.7	2.6	B1/500		G1/500
BVH (80°-90°)	3.3	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: P482408

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9
2.5°	1326.3	1307.4	1324.6	1326.3	1328.0	1343.5	1360.7	1348.7	1347.0	1360.7	1372.8
5°	1273.0	1264.4	1285.0	1295.4	1312.6	1326.3	1353.9	1355.6	1357.3	1372.8	1393.4
7.5°	1250.6	1230.0	1254.1	1266.1	1278.2	1310.8	1343.5	1360.7	1384.8	1403.7	1424.4
10°	1205.9	1221.4	1228.3	1248.9	1283.3	1321.2	1360.7	1369.3	1422.7	1438.1	1488.0
12.5°	1221.4	1231.7	1245.5	1250.6	1288.5	1345.2	1398.6	1402.0	1457.1	1524.2	1550.0
15°	1261.0	1254.1	1259.2	1266.1	1310.8	1357.3	1443.3	1458.8	1510.4	1586.1	1649.7
17.5°	1345.2	1333.2	1324.6	1322.9	1333.2	1376.2	1477.7	1524.2	1572.3	1675.5	1708.2
20°	1556.8	1546.5	1512.1	1422.7	1391.7	1408.9	1519.0	1584.4	1651.5	1766.7	1820.0
22.5°	1878.5	1888.9	1808.0	1682.4	1553.4	1486.3	1584.4	1641.1	1747.8	1894.0	1942.2
25°	2258.7	2238.1	2140.0	1993.8	1790.8	1632.5	1689.3	1753.0	1883.7	2004.1	2023.0
27.5°	2556.3	2532.2	2456.5	2279.4	2103.9	1847.6	1826.9	1866.5	2021.3	2129.7	2109.0
30°	2850.5	2859.1	2807.5	2597.6	2380.9	2110.8	1980.0	1997.2	2115.9	2255.3	2208.8
32.5°	3225.5	3204.9	3175.6	2991.5	2735.2	2446.2	2222.6	2195.1	2246.7	2430.7	2375.7
35°	3574.7	3562.7	3523.1	3337.3	3113.7	2798.9	2580.4	2518.5	2506.4	2711.1	2614.8
37.5°	3879.2	3858.6	3798.4	3679.7	3462.9	3198.0	2958.9	2903.8	2902.1	3043.2	2857.4
40°	4135.5	4151.0	4144.1	4013.4	3894.7	3683.1	3316.7	3228.9	3222.1	3297.8	3189.4
42.5°	4467.5	4503.7	4484.7	4458.9	4316.2	4233.6	3819.0	3684.8	3624.6	3779.4	3681.4
45°	4969.9	4983.6	4995.7	4932.0	4789.2	4806.4	4338.5	4178.5	4163.0	4393.6	4173.4
47.5°	5439.5	5403.4	5487.7	5491.1	5484.2	5405.1	4899.3	4780.6	4801.3	4976.7	4749.7
50°	5556.5	5649.4	5881.6	5924.6	6036.4	6108.7	5522.1	5403.4	5437.8	5637.3	5377.6
52.5°	5647.6	5788.7	6020.9	6335.7	6636.8	6808.8	6218.8	6122.4	6120.7	6242.9	5885.0
55°	5807.6	5893.6	6094.9	6528.4	7101.3	7383.4	7058.3	6903.4	6764.1	6850.1	6411.4
57.5°	5792.1	5824.8	6137.9	6672.9	7469.4	7982.0	7748.1	7600.1	7421.2	7371.3	7017.0
60°	5520.3	5597.8	5948.7	6574.9	7696.5	8448.2	8391.5	8240.1	7932.2	7815.2	7481.4
62.5°	4981.9	5085.1	5360.4	6230.8	7366.2	8472.3	8835.3	8778.5	8434.5	8224.6	8087.0
65°	4037.5	4085.6	4402.2	5356.9	6619.6	8102.5	9360.0	9289.4	8972.9	8659.8	8398.3
67.5°	2614.8	2661.3	2965.7	3824.2	5198.7	7147.7	9339.3	9533.7	9191.4	8814.7	8204.0
70°	1235.2	1223.1	1507.0	2124.5	3330.4	5458.4	8708.0	9091.6	8800.9	7990.6	6814.0
72.5°	376.7	409.4	626.2	941.0	1709.9	3404.4	6826.0	7185.6	7094.4	6383.9	4548.4
75°	166.9	180.6	246.0	385.3	693.3	1396.9	4216.4	4536.3	4496.8	3765.7	2076.4
77.5°	106.7	117.0	154.8	220.2	314.8	443.8	1942.2	2253.6	2184.7	1322.9	543.6
80°	75.7	80.9	110.1	151.4	197.8	182.3	669.2	794.8	762.1	359.5	146.2
82.5°	41.3	44.7	80.9	111.8	132.5	92.9	187.5	234.0	244.3	160.0	70.5
85°	15.5	18.9	49.9	79.1	68.8	43.0	55.0	67.1	87.7	87.7	32.7
87.5°	0.0	1.7	20.6	34.4	17.2	12.0	15.5	18.9	24.1	41.3	12.0
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: P482408  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9
2.5°	1381.4	1369.3	1374.5	1383.1	1364.2	1374.5	1353.9	1369.3	1374.5	1353.9	1364.2
5°	1398.6	1410.6	1403.7	1390.0	1377.9	1381.4	1376.2	1364.2	1374.5	1377.9	1371.1
7.5°	1448.5	1434.7	1438.1	1422.7	1398.6	1396.9	1364.2	1355.6	1359.0	1362.5	1350.4
10°	1494.9	1503.5	1486.3	1474.3	1434.7	1408.9	1364.2	1316.0	1310.8	1290.2	1307.4
12.5°	1577.5	1556.8	1550.0	1510.4	1470.8	1384.8	1288.5	1214.5	1152.6	1130.2	1107.9
15°	1646.3	1642.9	1630.8	1570.6	1479.4	1322.9	1140.5	968.5	849.8	775.8	765.5
17.5°	1740.9	1725.4	1703.1	1608.5	1415.8	1161.2	849.8	633.1	514.4	467.9	450.7
20°	1813.2	1801.1	1770.2	1599.8	1300.5	865.3	526.4	402.5	373.3	364.7	366.4
22.5°	1918.1	1880.3	1821.8	1556.8	1090.7	576.3	378.5	359.5	354.4	347.5	349.2
25°	2009.3	1974.9	1852.7	1482.9	777.6	381.9	350.9	340.6	332.0	323.4	321.7
27.5°	2090.1	2047.1	1885.4	1331.5	486.8	328.6	325.1	313.1	295.9	282.1	277.0
30°	2169.3	2119.4	1894.0	1047.6	328.6	297.6	289.0	270.1	247.7	228.8	225.4
32.5°	2301.7	2241.5	1882.0	748.3	283.8	264.9	246.0	223.6	190.9	175.5	172.0
35°	2508.2	2417.0	1866.5	440.4	254.6	234.0	204.7	175.5	151.4	135.9	132.5
37.5°	2745.5	2587.3	1821.8	294.2	234.0	206.4	168.6	139.3	118.7	106.7	103.2
40°	3098.2	2836.7	1649.7	240.8	208.2	175.5	135.9	110.1	94.6	86.0	82.6
42.5°	3487.0	3122.3	1384.8	216.8	184.1	149.7	108.4	89.5	77.4	68.8	68.8
45°	3953.2	3419.9	1068.3	197.8	163.4	123.9	89.5	72.3	61.9	55.0	51.6
47.5°	4472.7	3690.0	720.8	178.9	137.6	101.5	74.0	55.0	44.7	39.6	39.6
50°	4937.2	3929.1	459.3	156.5	120.4	84.3	60.2	44.7	36.1	29.2	27.5
52.5°	5358.6	4111.4	316.5	137.6	103.2	68.8	49.9	36.1	27.5	22.4	22.4
55°	5790.4	4204.3	234.0	118.7	89.5	58.5	41.3	32.7	24.1	18.9	17.2
57.5°	6144.8	4243.9	178.9	103.2	75.7	46.4	36.1	27.5	20.6	15.5	13.8
60°	6447.6	4225.0	139.3	86.0	60.2	39.6	31.0	22.4	17.2	12.0	10.3
62.5°	6624.8	4111.4	110.1	74.0	48.2	34.4	25.8	18.9	12.0	8.6	6.9
65°	6628.2	3870.6	86.0	55.0	36.1	29.2	22.4	15.5	8.6	3.4	1.7
67.5°	6153.4	3349.4	68.8	43.0	29.2	22.4	17.2	12.0	3.4	0.0	0.0
70°	4813.3	2534.0	56.8	34.4	24.1	18.9	12.0	6.9	1.7	0.0	0.0
72.5°	3067.2	1517.3	46.4	27.5	20.6	13.8	8.6	5.2	0.0	0.0	0.0
75°	1283.3	467.9	36.1	24.1	15.5	10.3	6.9	1.7	0.0	0.0	0.0
77.5°	330.3	147.9	29.2	20.6	15.5	8.6	5.2	1.7	0.0	0.0	0.0
80°	98.1	55.0	24.1	17.2	12.0	6.9	3.4	1.7	0.0	0.0	0.0
82.5°	44.7	32.7	20.6	15.5	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	17.2	10.3	10.3	8.6	8.6	5.2	1.7	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	3.4	3.4	1.7	1.7	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)