

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: P481552

Luminaire Tested: **IFLD-S-SA3D-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

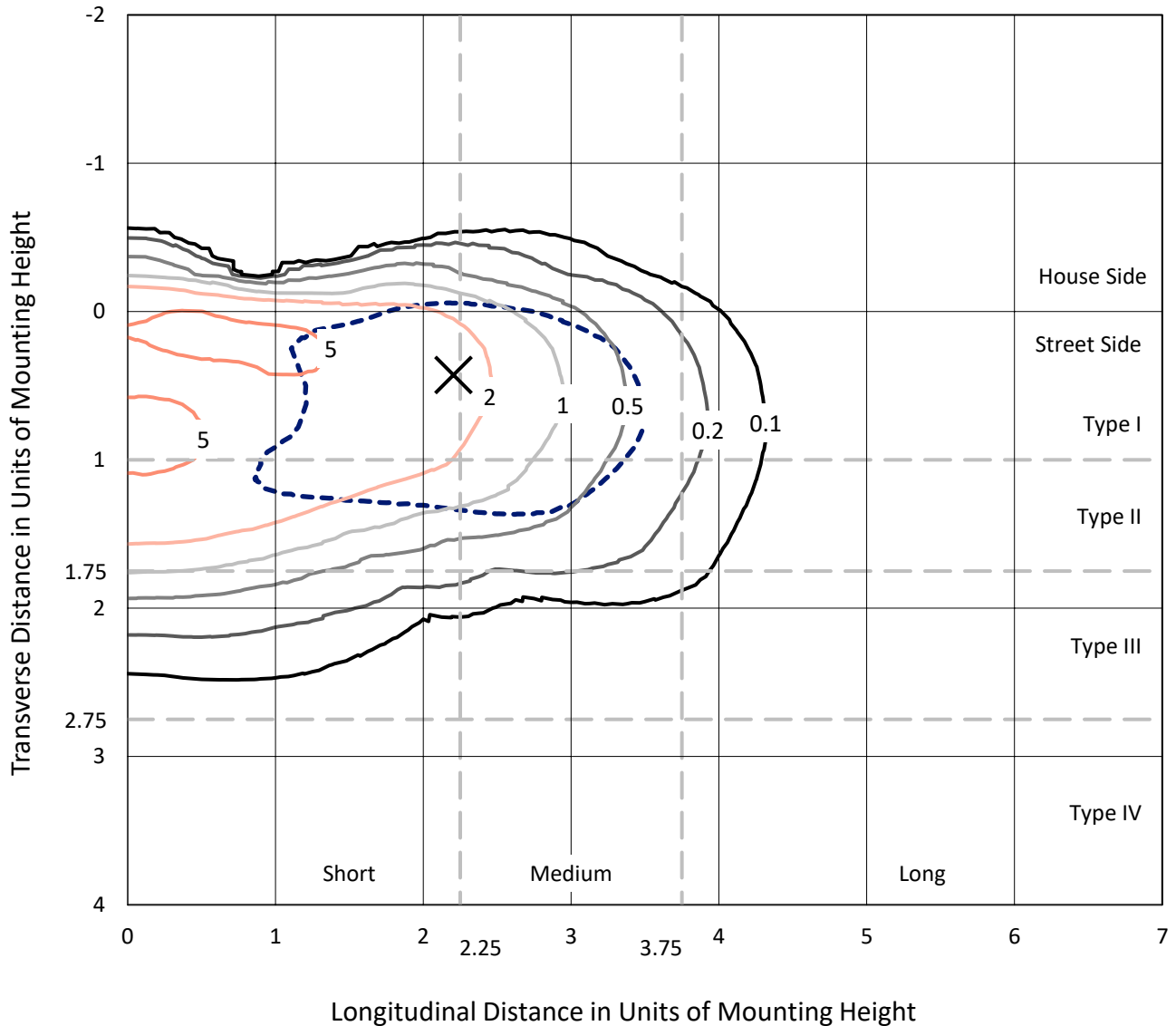
Lumens per Lamp: N/A
Luminaire Lumens: 14036.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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: P481552
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

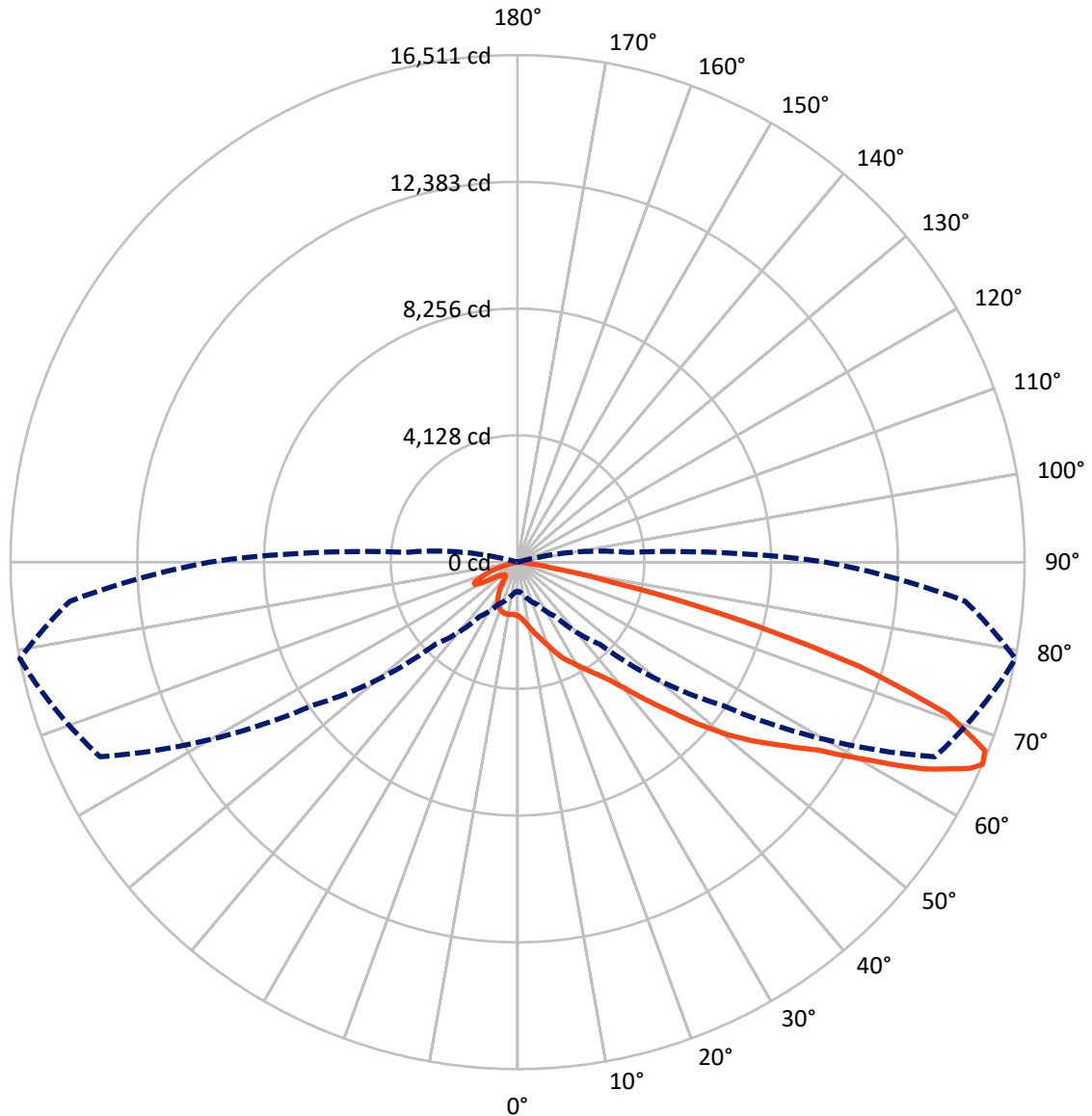
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481552
CATALOG NUMBER: IFLD-S-SA3D-727-U-T2-HSS

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	1054.0	0.0	1054.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12982.7	0.0	12982.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	14036.7	0.0	14036.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.2
10°-20°	454.5	3.2
20°-30°	755.1	5.4
30°-40°	1297.0	9.2
40°-50°	2349.6	16.7
50°-60°	3714.0	26.5
60°-70°	3779.3	26.9
70°-80°	1441.2	10.3
80°-90°	80.8	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°	14036.7	100.0
0°-180°	14036.7	100.0

Coefficient of Utilization

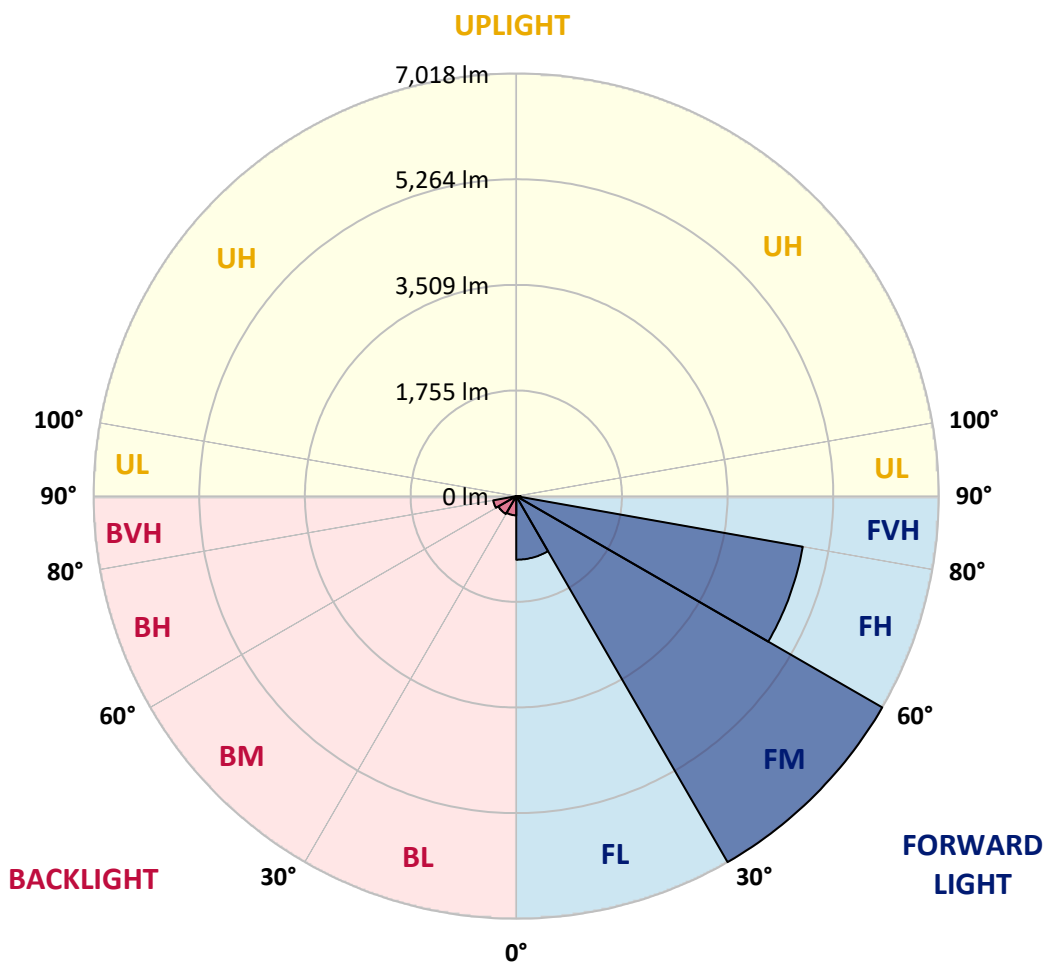


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.0	7.5			
FM (30°-60°)	7018.0	50.0			
FH (60°-80°)	4832.0	34.4			G2/5000
FVH (80°-90°)	76.7	0.5			G1/100
BL (0°-30°)	318.7	2.3	B1/500		
BM (30°-60°)	342.6	2.4	B1/1000		
BH (60°-80°)	388.5	2.8	B1/500		G1/500
BVH (80°-90°)	4.1	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





REPORT NUMBER: P481552

CATALOG NUMBER: IFLD-S-SA3D-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3
2.5°	1977.9	1975.7	1967.1	1951.9	1932.4	1925.9	1897.8	1858.9	1837.2	1813.4	1802.6
5°	2114.2	2103.4	2129.4	2118.5	2122.9	2070.9	2036.3	2008.2	1925.9	1893.5	1841.5
7.5°	2144.5	2155.3	2153.2	2170.5	2187.8	2207.3	2183.5	2142.3	2060.1	2012.5	1956.2
10°	2144.5	2140.2	2157.5	2181.3	2231.1	2274.3	2339.3	2285.2	2222.4	2166.1	2064.4
12.5°	2105.6	2099.1	2116.4	2166.1	2254.9	2343.6	2415.0	2466.9	2378.2	2332.8	2200.8
15°	1986.5	1980.0	2051.5	2140.2	2257.0	2402.0	2551.3	2635.7	2575.1	2503.7	2356.6
17.5°	1839.4	1848.0	1923.8	2070.9	2257.0	2430.1	2620.6	2804.5	2795.9	2705.0	2551.3
20°	1789.6	1796.1	1871.8	1977.9	2189.9	2449.6	2728.8	2988.5	3040.4	2932.2	2730.9
22.5°	1884.8	1878.3	1884.8	1949.7	2144.5	2432.3	2800.2	3198.4	3291.4	3207.0	2966.8
25°	2209.4	2205.1	2151.0	2051.5	2118.5	2393.4	2837.0	3336.9	3551.1	3473.2	3157.2
27.5°	2685.5	2668.2	2583.8	2376.1	2239.7	2417.2	2897.6	3471.0	3778.3	3689.6	3328.2
30°	3196.2	3155.1	3044.7	2785.0	2553.5	2505.9	2932.2	3570.6	4031.5	3919.0	3477.5
32.5°	3548.9	3603.0	3568.4	3304.4	2949.5	2711.5	2988.5	3696.1	4265.2	4191.6	3732.9
35°	4094.3	4157.0	4012.0	3778.3	3421.3	3038.2	3107.5	3797.8	4624.4	4501.1	3970.9
37.5°	4782.4	4830.0	4726.1	4282.5	3906.0	3440.7	3352.0	4009.9	4933.9	4875.4	4276.0
40°	5128.6	5358.0	5210.9	4810.5	4405.9	4003.4	3756.7	4258.7	5472.7	5425.1	4698.0
42.5°	5606.9	5721.6	5645.8	5349.4	4927.4	4604.9	4256.5	4743.4	6126.2	6126.2	5269.3
45°	6113.2	6117.6	6113.2	5870.9	5496.5	5329.9	4931.7	5351.5	6829.5	6907.4	5953.1
47.5°	6528.7	6658.6	6647.7	6502.8	6212.8	6150.0	5606.9	6044.0	7712.4	7848.8	6619.6
50°	6743.0	6887.9	6931.2	7007.0	6994.0	7126.0	6344.8	6846.8	8474.1	8809.6	7476.6
52.5°	6684.5	6695.4	6961.5	7260.2	7736.2	8106.3	7234.2	7757.9	9365.7	9696.8	8138.7
55°	6206.3	6165.2	6712.7	7054.6	8039.2	8705.7	8465.5	8894.0	10060.3	10564.6	8822.5
57.5°	5156.8	5167.6	5674.0	6368.6	7814.1	8943.7	9781.2	10378.4	11034.1	11542.7	9783.4
60°	3559.7	3546.8	4113.7	4916.6	6491.9	8500.1	10538.6	12302.2	12336.9	13057.5	11508.0
62.5°	2001.7	2006.0	2436.6	3122.6	4542.2	6946.4	10501.8	14345.0	14197.9	14829.8	13468.6
65°	1133.9	1162.1	1458.5	1850.2	2720.1	4663.4	9032.5	15158.7	15632.6	16195.2	14658.8
66°	958.6	978.1	1231.3	1527.8	2170.5	3782.6	8130.1	15000.7	16082.7	16511.2	14635.0
67.5°	742.2	768.2	980.3	1211.8	1592.7	2618.4	6543.9	14215.2	16164.9	16416.0	14221.7
70°	508.5	525.8	688.1	919.7	1088.5	1339.5	3912.5	11752.6	14667.5	14879.5	12360.7
72.5°	357.1	365.7	482.6	696.8	837.5	766.0	1941.1	8361.6	11224.6	11637.9	9614.6
75°	257.5	266.2	331.1	499.9	653.5	502.0	889.4	5340.7	6883.6	7208.2	5790.8
77.5°	186.1	196.9	225.1	322.4	473.9	352.7	437.1	2789.4	3246.0	3189.7	2490.7
80°	112.5	123.3	166.6	207.7	346.2	248.9	240.2	1164.2	1151.2	1092.8	783.4
82.5°	51.9	60.6	88.7	140.7	242.4	173.1	114.7	415.5	363.5	333.3	220.7
85°	15.1	19.5	51.9	106.0	123.3	84.4	69.2	142.8	149.3	127.7	73.6
87.5°	0.0	2.2	23.8	26.0	36.8	28.1	26.0	36.8	69.2	56.3	23.8
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°	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3
2.5°	1763.6	1748.5	1711.7	1655.4	1605.7	1579.7	1542.9	1510.5	1493.1	1491.0	1488.8
5°	1806.9	1765.8	1677.1	1575.4	1499.6	1417.4	1361.1	1320.0	1281.1	1244.3	1265.9
7.5°	1865.4	1800.4	1655.4	1523.4	1359.0	1252.9	1153.4	1095.0	1060.4	1027.9	1023.6
10°	1956.2	1874.0	1640.3	1402.3	1214.0	1058.2	956.5	872.1	824.5	768.2	789.9
12.5°	2079.6	1932.4	1584.0	1291.9	1049.5	885.1	740.1	603.8	528.0	469.6	471.7
15°	2202.9	2010.3	1532.1	1157.7	900.2	683.8	471.7	378.7	357.1	344.1	348.4
17.5°	2324.1	2073.1	1452.0	1021.4	729.3	435.0	344.1	324.6	313.8	300.8	300.8
20°	2471.3	2114.2	1352.5	895.9	502.0	322.4	294.3	281.3	264.0	246.7	248.9
22.5°	2614.1	2148.8	1237.8	735.8	337.6	279.2	246.7	229.4	214.2	196.9	196.9
25°	2756.9	2159.7	1088.5	528.0	272.7	222.9	192.6	168.8	153.6	138.5	140.7
27.5°	2854.3	2092.6	947.8	337.6	218.6	168.8	134.2	114.7	101.7	86.6	86.6
30°	2910.6	1969.2	796.3	238.0	164.5	114.7	80.1	60.6	47.6	36.8	34.6
32.5°	2966.8	1869.7	625.4	181.8	108.2	60.6	30.3	10.8	0.0	0.0	0.0
35°	3079.3	1757.2	419.8	101.7	36.8	2.2	0.0	0.0	0.0	0.0	0.0
37.5°	3150.8	1601.3	192.6	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3330.4	1523.4	47.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3622.5	1469.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3942.8	1447.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4369.1	1506.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4819.2	1664.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5312.6	1813.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5743.2	1993.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6535.2	2417.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7957.0	3250.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9558.3	3869.2	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10144.7	3854.0	41.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10040.9	3642.0	41.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9502.0	3235.2	36.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8160.4	2672.5	36.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6221.4	2081.7	34.6	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3754.5	1108.0	28.1	10.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1495.3	389.5	21.6	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	404.7	116.9	13.0	8.7	6.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	106.0	43.3	10.8	8.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0
85°	41.1	17.3	8.7	6.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0
87.5°	13.0	6.5	6.5	4.3	4.3	2.2	2.2	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)