

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: P482332

Luminaire Tested: **IFLD-S-SA3D-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482332
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-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

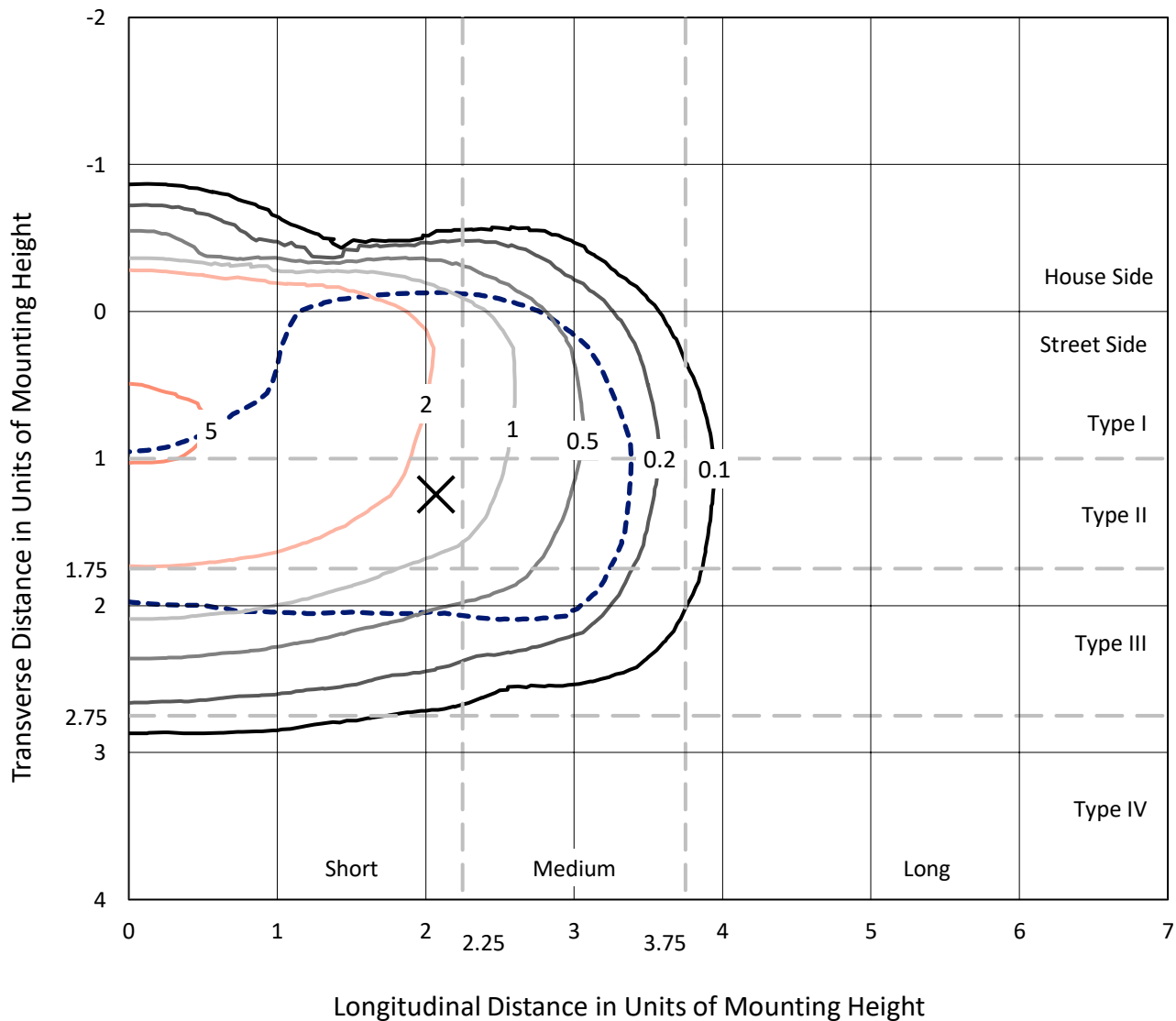
Lumens per Lamp: N/A
Luminaire Lumens: 14463.3 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

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Iso-Footcandle Lines of Horizontal Illumination

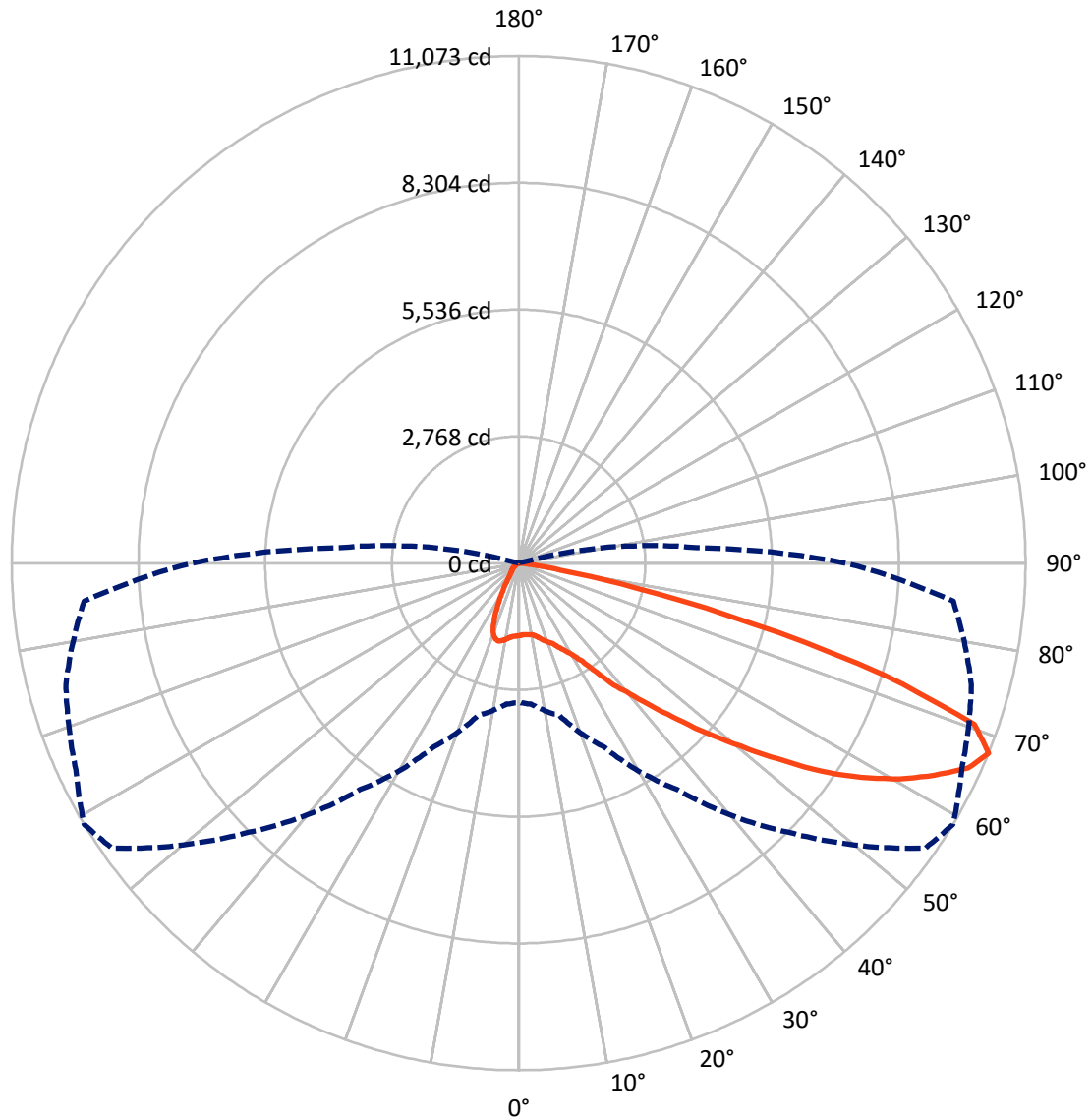
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1699.0	0.0	1699.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	12764.3	0.0	12764.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	14463.3	0.0	14463.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.0
10°-20°	435.3	3.0
20°-30°	760.8	5.3
30°-40°	1339.4	9.3
40°-50°	2367.6	16.4
50°-60°	3748.8	25.9
60°-70°	4158.5	28.8
70°-80°	1442.9	10.0
80°-90°	59.4	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°	14463.3	100.0
0°-180°	14463.3	100.0

Coefficient of Utilization

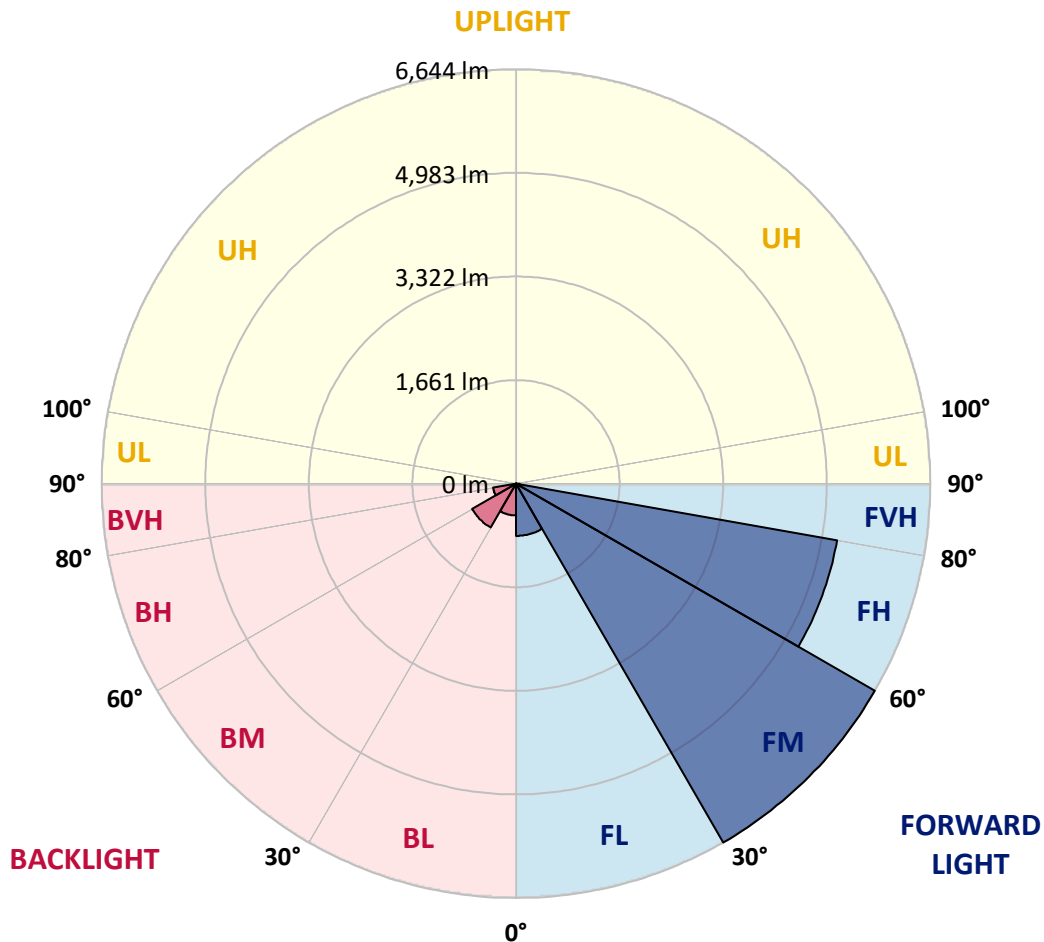


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.5	5.8			
FM (30°-60°)	6643.5	45.9			
FH (60°-80°)	5227.7	36.1			G3/7500
FVH (80°-90°)	55.6	0.4			G1/100
BL (0°-30°)	509.2	3.5	B2/1000		
BM (30°-60°)	812.3	5.6	B1/1000		
BH (60°-80°)	373.6	2.6	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4
2.5°	1540.4	1518.4	1538.4	1540.4	1542.4	1560.4	1580.4	1566.4	1564.4	1580.4	1594.4
5°	1478.5	1468.5	1492.5	1504.4	1524.4	1540.4	1572.4	1574.4	1576.4	1594.4	1618.3
7.5°	1452.5	1428.5	1456.5	1470.5	1484.5	1522.4	1560.4	1580.4	1608.3	1630.3	1654.3
10°	1400.6	1418.5	1426.5	1450.5	1490.5	1534.4	1580.4	1590.4	1652.3	1670.3	1728.2
12.5°	1418.5	1430.5	1446.5	1452.5	1496.5	1562.4	1624.3	1628.3	1692.3	1770.2	1800.1
15°	1464.5	1456.5	1462.5	1470.5	1522.4	1576.4	1676.3	1694.3	1754.2	1842.1	1916.0
17.5°	1562.4	1548.4	1538.4	1536.4	1548.4	1598.3	1716.2	1770.2	1826.1	1946.0	1984.0
20°	1808.1	1796.1	1756.2	1652.3	1616.3	1636.3	1764.2	1840.1	1918.0	2051.9	2113.8
22.5°	2181.7	2193.7	2099.8	1954.0	1804.1	1726.2	1840.1	1906.0	2029.9	2199.7	2255.7
25°	2623.3	2599.3	2485.4	2315.6	2079.9	1896.0	1962.0	2035.9	2187.7	2327.6	2349.6
27.5°	2968.9	2941.0	2853.1	2647.3	2443.5	2145.8	2121.8	2167.8	2347.6	2473.4	2449.5
30°	3310.6	3320.6	3260.6	3016.9	2765.1	2451.5	2299.6	2319.6	2457.5	2619.3	2565.4
32.5°	3746.1	3722.2	3688.2	3474.4	3176.7	2841.1	2581.3	2549.4	2609.3	2823.1	2759.2
35°	4151.7	4137.7	4091.8	3876.0	3616.3	3250.6	2996.9	2925.0	2911.0	3148.7	3036.9
37.5°	4505.3	4481.4	4411.4	4273.6	4021.8	3714.2	3436.5	3372.5	3370.5	3534.4	3318.6
40°	4803.0	4821.0	4813.0	4661.2	4523.3	4277.6	3852.0	3750.1	3742.1	3830.0	3704.2
42.5°	5188.6	5230.6	5208.6	5178.7	5012.8	4916.9	4435.4	4279.6	4209.7	4389.5	4275.6
45°	5772.0	5788.0	5802.0	5728.1	5562.3	5582.2	5038.8	4853.0	4835.0	5102.7	4847.0
47.5°	6317.5	6275.5	6373.4	6377.4	6369.4	6277.5	5690.1	5552.3	5576.2	5780.0	5516.3
50°	6453.3	6561.2	6830.9	6880.9	7010.8	7094.7	6413.4	6275.5	6315.5	6547.2	6245.6
52.5°	6559.2	6723.1	6992.8	7358.4	7708.0	7907.8	7222.5	7110.7	7108.7	7250.5	6834.9
55°	6745.0	6844.9	7078.7	7582.2	8247.5	8575.1	8197.5	8017.7	7855.9	7955.8	7446.3
57.5°	6727.1	6765.0	7128.6	7750.0	8675.0	9270.4	8998.7	8826.9	8619.1	8561.2	8149.6
60°	6411.4	6501.3	6908.9	7636.1	8938.8	9811.9	9745.9	9570.1	9212.5	9076.6	8689.0
62.5°	5786.0	5905.9	6225.6	7236.5	8555.2	9839.8	10261.4	10195.5	9795.9	9552.1	9392.3
65°	4689.2	4745.1	5112.7	6221.6	7688.1	9410.3	10870.8	10788.9	10421.2	10057.6	9753.9
67.5°	3036.9	3090.8	3444.4	4441.4	6037.8	8301.4	10846.8	11072.6	10675.0	10237.4	9528.2
70°	1434.5	1420.5	1750.2	2467.5	3868.0	6339.5	10113.6	10559.1	10221.4	9280.4	7913.8
72.5°	437.5	475.5	727.2	1092.9	1985.9	3953.9	7927.8	8345.4	8239.5	7414.3	5282.5
75°	193.8	209.8	285.7	447.5	805.2	1622.3	4896.9	5268.6	5222.6	4373.5	2411.5
77.5°	123.9	135.9	179.8	255.7	365.6	515.5	2255.7	2617.3	2537.4	1536.4	631.3
80°	87.9	93.9	127.9	175.8	229.8	211.8	777.2	923.0	885.1	417.6	169.8
82.5°	48.0	51.9	93.9	129.9	153.8	107.9	217.8	271.7	283.7	185.8	81.9
85°	18.0	22.0	57.9	91.9	79.9	49.9	63.9	77.9	101.9	101.9	38.0
87.5°	0.0	2.0	24.0	40.0	20.0	14.0	18.0	22.0	28.0	48.0	14.0
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°	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4
2.5°	1604.3	1590.4	1596.4	1606.3	1584.4	1596.4	1572.4	1590.4	1596.4	1572.4	1584.4
5°	1624.3	1638.3	1630.3	1614.3	1600.3	1604.3	1598.3	1584.4	1596.4	1600.3	1592.4
7.5°	1682.3	1666.3	1670.3	1652.3	1624.3	1622.3	1584.4	1574.4	1578.4	1582.4	1568.4
10°	1736.2	1746.2	1726.2	1712.2	1666.3	1636.3	1584.4	1528.4	1522.4	1498.5	1518.4
12.5°	1832.1	1808.1	1800.1	1754.2	1708.2	1608.3	1496.5	1410.5	1338.6	1312.6	1286.7
15°	1912.0	1908.0	1894.0	1824.1	1718.2	1536.4	1324.6	1124.8	987.0	901.1	889.1
17.5°	2021.9	2003.9	1978.0	1868.1	1644.3	1348.6	987.0	735.2	597.4	543.4	523.5
20°	2105.8	2091.8	2055.9	1858.1	1510.4	1005.0	611.4	467.5	433.6	423.6	425.6
22.5°	2227.7	2183.7	2115.8	1808.1	1266.7	669.3	439.5	417.6	411.6	403.6	405.6
25°	2333.6	2293.6	2151.8	1722.2	903.1	443.5	407.6	395.6	385.6	375.6	373.6
27.5°	2427.5	2377.5	2189.7	1546.4	565.4	381.6	377.6	363.6	343.6	327.7	321.7
30°	2519.4	2461.5	2199.7	1216.7	381.6	345.6	335.7	313.7	287.7	265.7	261.7
32.5°	2673.2	2603.3	2185.7	869.1	329.7	307.7	285.7	259.7	221.8	203.8	199.8
35°	2913.0	2807.1	2167.8	511.5	295.7	271.7	237.8	203.8	175.8	157.8	153.8
37.5°	3188.7	3004.9	2115.8	341.6	271.7	239.8	195.8	161.8	137.9	123.9	119.9
40°	3598.3	3294.6	1916.0	279.7	241.8	203.8	157.8	127.9	109.9	99.9	95.9
42.5°	4049.8	3626.3	1608.3	251.7	213.8	173.8	125.9	103.9	89.9	79.9	79.9
45°	4591.3	3971.9	1240.7	229.8	189.8	143.9	103.9	83.9	71.9	63.9	59.9
47.5°	5194.6	4285.6	837.1	207.8	159.8	117.9	85.9	63.9	51.9	46.0	46.0
50°	5734.1	4563.3	533.4	181.8	139.9	97.9	69.9	51.9	42.0	34.0	32.0
52.5°	6223.6	4775.1	367.6	159.8	119.9	79.9	57.9	42.0	32.0	26.0	26.0
55°	6725.1	4883.0	271.7	137.9	103.9	67.9	48.0	38.0	28.0	22.0	20.0
57.5°	7136.6	4928.9	207.8	119.9	87.9	53.9	42.0	32.0	24.0	18.0	16.0
60°	7488.3	4906.9	161.8	99.9	69.9	46.0	36.0	26.0	20.0	14.0	12.0
62.5°	7694.1	4775.1	127.9	85.9	55.9	40.0	30.0	22.0	14.0	10.0	8.0
65°	7698.1	4495.4	99.9	63.9	42.0	34.0	26.0	18.0	10.0	4.0	2.0
67.5°	7146.6	3890.0	79.9	49.9	34.0	26.0	20.0	14.0	4.0	0.0	0.0
70°	5590.2	2943.0	65.9	40.0	28.0	22.0	14.0	8.0	2.0	0.0	0.0
72.5°	3562.3	1762.2	53.9	32.0	24.0	16.0	10.0	6.0	0.0	0.0	0.0
75°	1490.5	543.4	42.0	28.0	18.0	12.0	8.0	2.0	0.0	0.0	0.0
77.5°	383.6	171.8	34.0	24.0	18.0	10.0	6.0	2.0	0.0	0.0	0.0
80°	113.9	63.9	28.0	20.0	14.0	8.0	4.0	2.0	0.0	0.0	0.0
82.5°	51.9	38.0	24.0	18.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0
85°	20.0	12.0	12.0	10.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.0	4.0	4.0	2.0	2.0	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)