

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: P483652

Luminaire Tested: **IFLD-S-SA2C-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

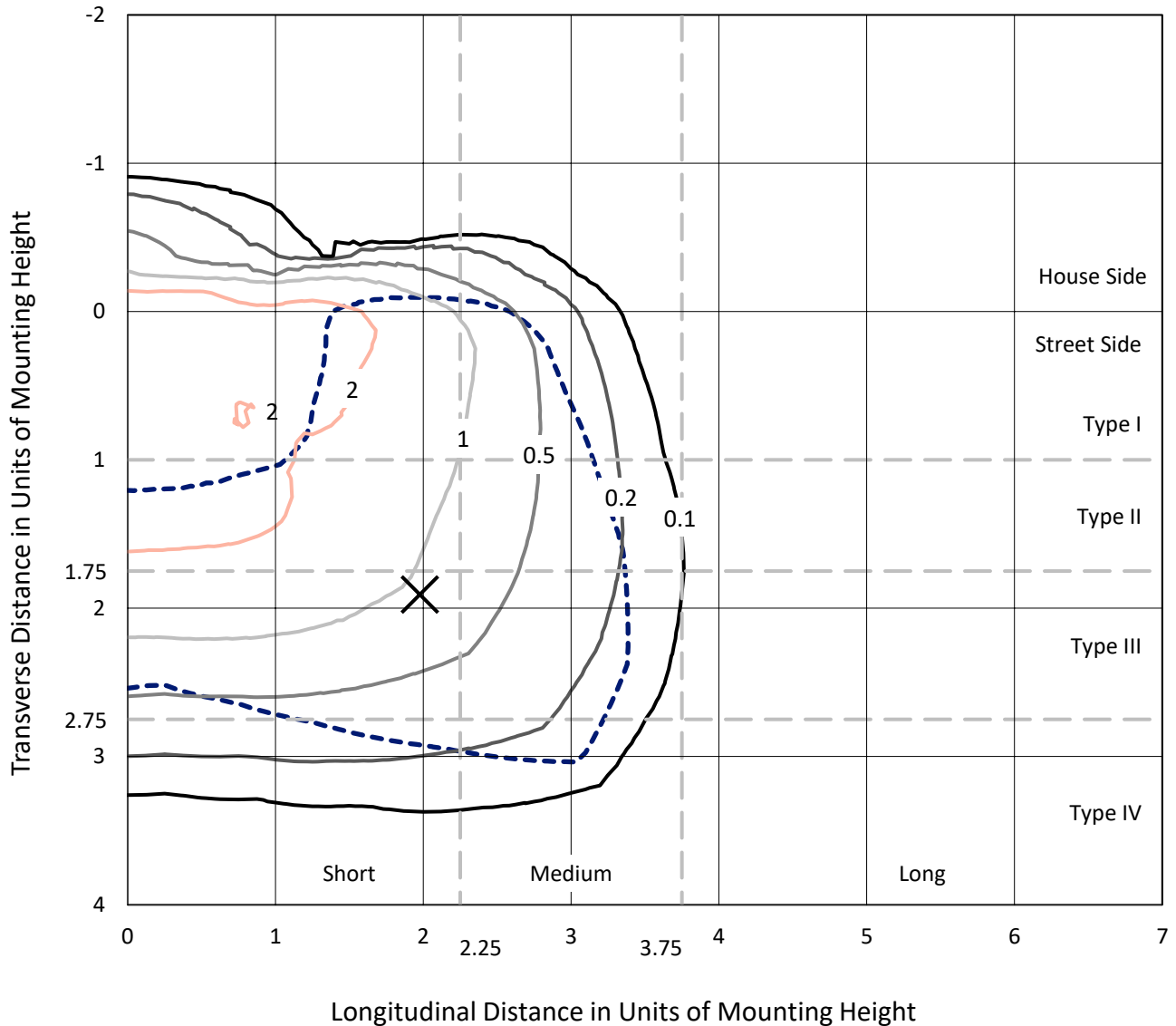
Lumens per Lamp: N/A
Luminaire Lumens: 10727.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 108.2
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

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Iso-Footcandle Lines of Horizontal Illumination

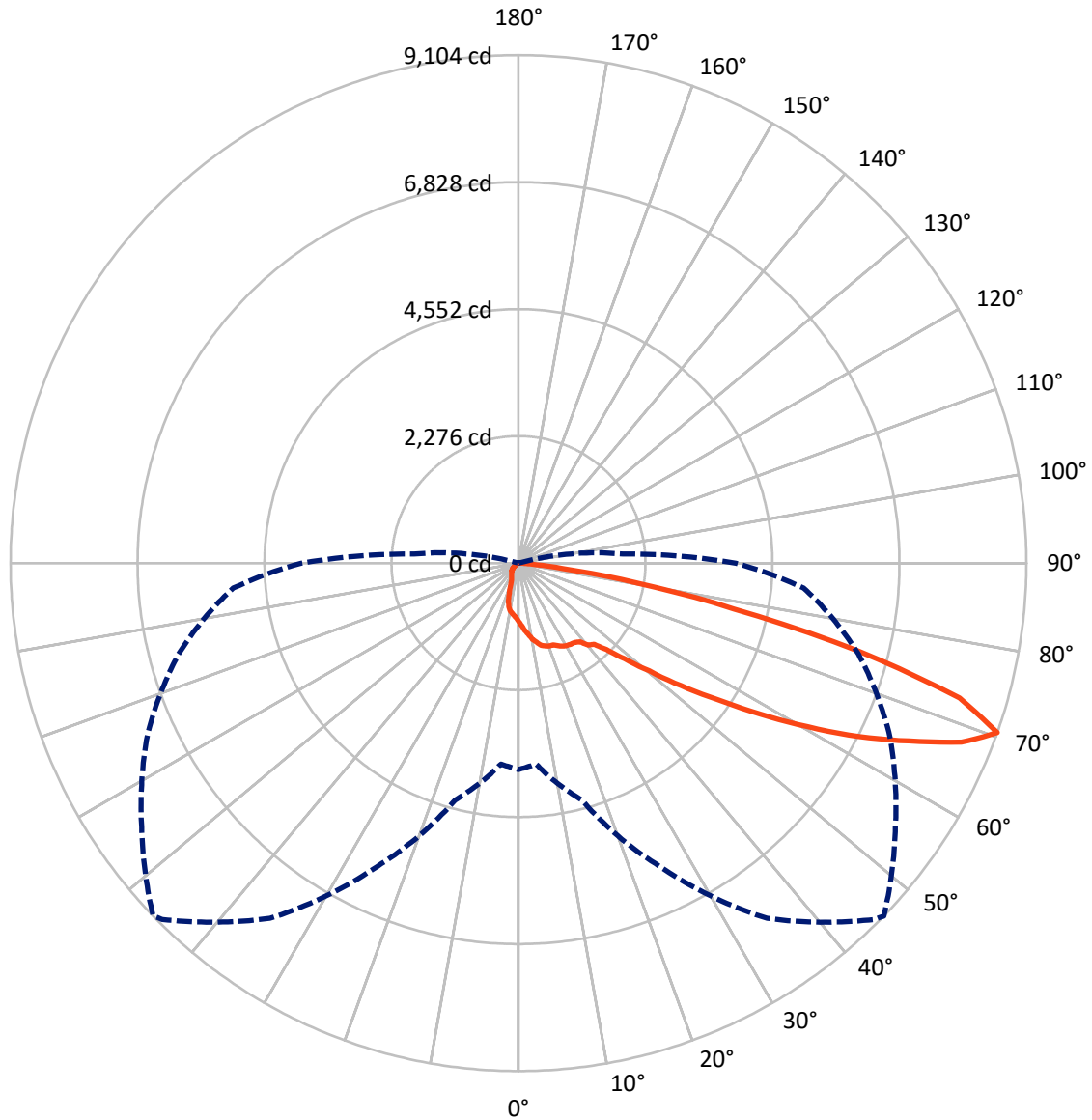
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.4	0.0	1067.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9659.9	0.0	9659.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	10727.3	0.0	10727.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.0
10°-20°	317.1	3.0
20°-30°	507.9	4.7
30°-40°	725.0	6.8
40°-50°	1251.9	11.7
50°-60°	2396.9	22.3
60°-70°	3549.4	33.1
70°-80°	1758.0	16.4
80°-90°	116.2	1.1
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°	10727.3	100.0
0°-180°	10727.3	100.0

Coefficient of Utilization



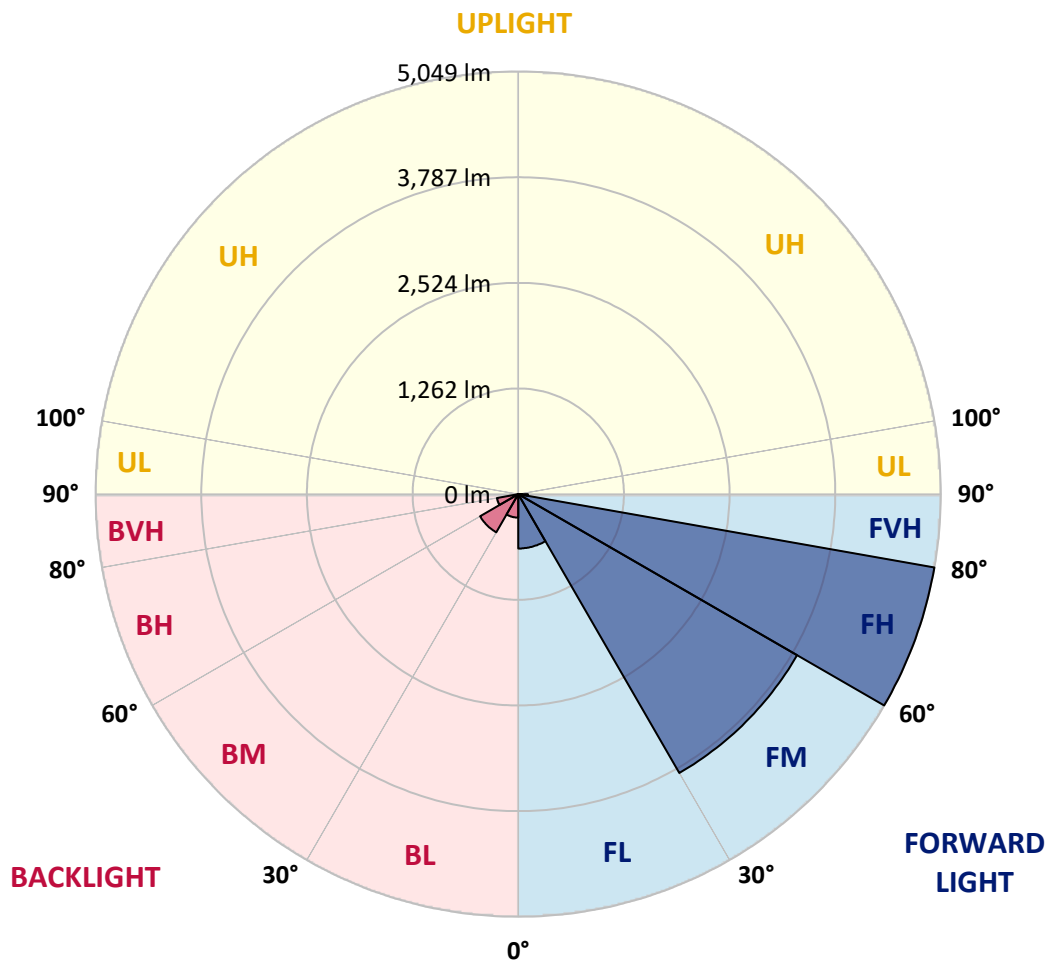
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.6	6.1			
FM (30°-60°)	3846.8	35.9			
FH (60°-80°)	5048.8	47.1			G3/7500
FVH (80°-90°)	114.7	1.1			G2/225
BL (0°-30°)	280.4	2.6	B1/500		
BM (30°-60°)	527.0	4.9	B1/1000		
BH (60°-80°)	258.5	2.4	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1175.1	1167.4	1155.0	1150.4	1138.0	1131.8	1122.6	1117.9	1101.0	1084.0	1073.2
5°	1318.7	1300.1	1306.3	1287.8	1247.6	1215.2	1213.7	1178.2	1139.6	1108.7	1067.0
7.5°	1463.8	1448.4	1425.2	1399.0	1354.2	1306.3	1292.4	1258.5	1204.4	1150.4	1094.8
10°	1573.5	1562.6	1542.6	1505.5	1443.7	1389.7	1391.2	1334.1	1277.0	1215.2	1139.6
12.5°	1641.4	1646.0	1616.7	1579.6	1525.6	1457.6	1456.1	1417.5	1352.6	1287.8	1198.2
15°	1709.3	1726.3	1681.5	1638.3	1568.8	1519.4	1528.7	1482.4	1419.0	1344.9	1246.1
17.5°	1720.1	1724.8	1715.5	1652.2	1601.2	1559.6	1561.1	1530.2	1482.4	1402.1	1317.1
20°	1701.6	1698.5	1687.7	1641.4	1607.4	1582.7	1584.3	1576.5	1550.3	1485.4	1369.6
22.5°	1647.6	1647.6	1633.7	1602.8	1587.4	1610.5	1592.0	1621.3	1593.5	1554.9	1459.2
25°	1604.3	1621.3	1613.6	1593.5	1599.7	1630.6	1639.9	1667.6	1663.0	1615.1	1521.0
27.5°	1650.7	1630.6	1635.2	1612.1	1635.2	1681.5	1686.2	1706.2	1704.7	1666.1	1576.5
30°	1681.5	1700.1	1664.6	1613.6	1638.3	1717.1	1714.0	1740.2	1752.6	1706.2	1629.0
32.5°	1780.4	1764.9	1735.6	1667.6	1670.7	1715.5	1729.4	1763.4	1771.1	1743.3	1680.0
35°	1982.6	1959.5	1831.3	1729.4	1714.0	1735.6	1744.9	1811.2	1825.1	1794.3	1734.0
37.5°	2294.6	2242.1	2087.6	1862.2	1792.7	1788.1	1788.1	1876.1	1928.6	1857.6	1814.3
40°	2740.8	2666.7	2499.9	2107.7	1896.2	1914.7	1933.2	1981.1	1974.9	1928.6	1919.3
42.5°	3309.0	3251.9	3071.2	2520.0	2093.8	2001.2	1985.7	2050.6	2147.9	2129.3	2123.2
45°	3783.1	3786.2	3670.4	3085.1	2435.1	2200.4	2211.2	2260.6	2424.3	2410.4	2408.8
47.5°	4129.0	4085.7	4068.7	3630.2	2932.3	2578.7	2563.2	2597.2	2810.3	2898.3	2938.5
50°	4444.0	4414.6	4374.5	4159.9	3529.9	3052.7	3037.3	3040.4	3366.2	3489.7	3588.5
52.5°	4834.6	4871.7	4738.9	4607.6	4303.5	3668.8	3651.8	3591.6	3996.2	4166.0	4283.4
55°	5316.4	5246.9	5097.1	5165.1	5043.1	4334.3	4303.5	4232.4	4714.2	4785.2	4908.7
57.5°	5422.9	5370.4	5524.9	5765.7	5883.1	5115.7	5103.3	4975.1	5317.9	5253.1	5602.1
60°	5688.5	5702.4	5917.1	6395.7	6599.6	6017.4	5957.2	5731.8	5903.2	5915.5	6287.6
62.5°	5961.8	5929.4	6409.6	6869.8	7183.2	6871.3	6851.2	6403.5	6598.0	6440.5	6933.1
65°	5761.1	5810.5	6497.6	7268.2	7939.8	7706.7	7689.7	7050.4	7157.0	6960.9	7195.6
67.5°	5047.7	4947.4	5909.3	7086.0	8329.0	8582.2	8563.7	7756.1	7472.0	6957.8	6650.5
70°	3699.7	3613.2	4397.6	6000.4	7771.5	9030.0	9104.1	8247.1	7343.8	6309.3	5131.1
72.5°	1812.8	1814.3	2464.4	4068.7	6148.7	8230.1	8267.2	7561.5	6309.3	4650.9	2906.0
75°	535.8	542.0	912.6	1995.0	3974.6	6250.6	6292.3	5739.5	4372.9	2402.6	991.3
77.5°	196.1	196.1	302.6	748.9	1982.6	3945.2	3942.1	3523.7	2214.3	813.7	231.6
80°	101.9	106.5	157.5	305.7	858.5	2055.2	2132.4	1724.8	841.5	342.8	67.9
82.5°	41.7	46.3	86.5	157.5	412.3	721.1	789.0	676.3	366.0	239.3	30.9
85°	12.4	13.9	41.7	88.0	162.1	180.7	200.7	227.0	230.1	185.3	13.9
87.5°	1.5	1.5	17.0	29.3	35.5	38.6	44.8	44.8	117.4	129.7	7.7
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°	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1060.8	1053.1	1040.7	1012.9	1006.8	986.7	985.1	966.6	972.8	960.4	955.8
5°	1053.1	1036.1	1002.1	980.5	958.9	945.0	935.7	928.0	926.5	920.3	917.2
7.5°	1067.0	1043.8	991.3	957.4	920.3	907.9	887.9	886.3	875.5	864.7	864.7
10°	1113.3	1071.6	1014.5	957.4	909.5	869.3	823.0	789.0	776.7	748.9	752.0
12.5°	1150.4	1113.3	1029.9	971.2	898.7	807.6	705.7	626.9	589.9	554.3	568.2
15°	1202.9	1148.8	1059.3	974.3	857.0	699.5	532.7	444.7	410.7	403.0	401.5
17.5°	1260.0	1202.9	1096.3	966.6	772.1	540.4	392.2	341.2	347.4	356.7	355.1
20°	1323.3	1253.8	1124.1	940.4	637.7	392.2	321.2	319.6	328.9	342.8	345.9
22.5°	1389.7	1329.5	1158.1	861.6	475.6	315.0	308.8	308.8	315.0	332.0	328.9
25°	1463.8	1383.5	1175.1	739.6	341.2	290.3	293.4	299.6	302.6	316.5	318.1
27.5°	1521.0	1443.7	1179.7	592.9	277.9	268.7	276.4	284.1	288.7	299.6	304.2
30°	1573.5	1519.4	1155.0	441.6	254.8	250.1	253.2	264.0	273.3	282.6	282.6
32.5°	1639.9	1562.6	1097.9	313.5	240.9	233.2	231.6	236.2	247.1	257.9	257.9
35°	1707.8	1635.2	1006.8	251.7	228.5	217.7	211.5	206.9	211.5	219.3	225.4
37.5°	1806.6	1744.9	892.5	231.6	219.3	203.8	191.5	180.7	172.9	171.4	176.0
40°	1947.1	1868.4	745.8	217.7	208.5	189.9	171.4	152.9	135.9	125.1	126.6
42.5°	2160.2	2050.6	586.8	210.0	200.7	174.5	148.2	122.0	100.4	89.6	89.6
45°	2464.4	2291.5	430.8	202.3	191.5	156.0	122.0	91.1	69.5	63.3	64.9
47.5°	2923.0	2581.8	308.8	189.9	179.1	135.9	95.7	64.9	51.0	47.9	49.4
50°	3522.1	2926.1	240.9	176.0	163.7	114.3	71.0	47.9	40.1	38.6	40.1
52.5°	4150.6	3273.5	211.5	163.7	140.5	91.1	52.5	38.6	34.0	32.4	34.0
55°	4687.9	3497.4	183.7	145.1	112.7	67.9	41.7	34.0	29.3	24.7	24.7
57.5°	5231.5	3610.1	145.1	120.4	83.4	51.0	35.5	29.3	24.7	20.1	18.5
60°	5673.1	3690.4	103.5	89.6	58.7	40.1	30.9	26.2	20.1	15.4	13.9
62.5°	5963.4	3460.4	75.7	67.9	43.2	34.0	26.2	21.6	15.4	10.8	10.8
65°	5819.8	3142.3	58.7	47.9	32.4	26.2	21.6	15.4	10.8	6.2	4.6
67.5°	5222.2	2560.1	47.9	35.5	24.7	20.1	17.0	12.4	6.2	1.5	1.5
70°	3895.8	1876.1	38.6	26.2	20.1	15.4	12.4	7.7	3.1	1.5	0.0
72.5°	2130.9	1026.8	30.9	21.6	15.4	12.4	9.3	6.2	3.1	0.0	0.0
75°	704.1	273.3	23.2	15.4	9.3	7.7	6.2	4.6	1.5	0.0	0.0
77.5°	169.9	71.0	18.5	13.9	7.7	4.6	3.1	1.5	1.5	0.0	0.0
80°	52.5	29.3	13.9	9.3	6.2	4.6	1.5	0.0	0.0	0.0	0.0
82.5°	21.6	13.9	6.2	6.2	4.6	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.8	7.7	4.6	3.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.1	1.5	1.5	0.0	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)