

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: P483130

Luminaire Tested: **IFLD-M-SA4B-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483130
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

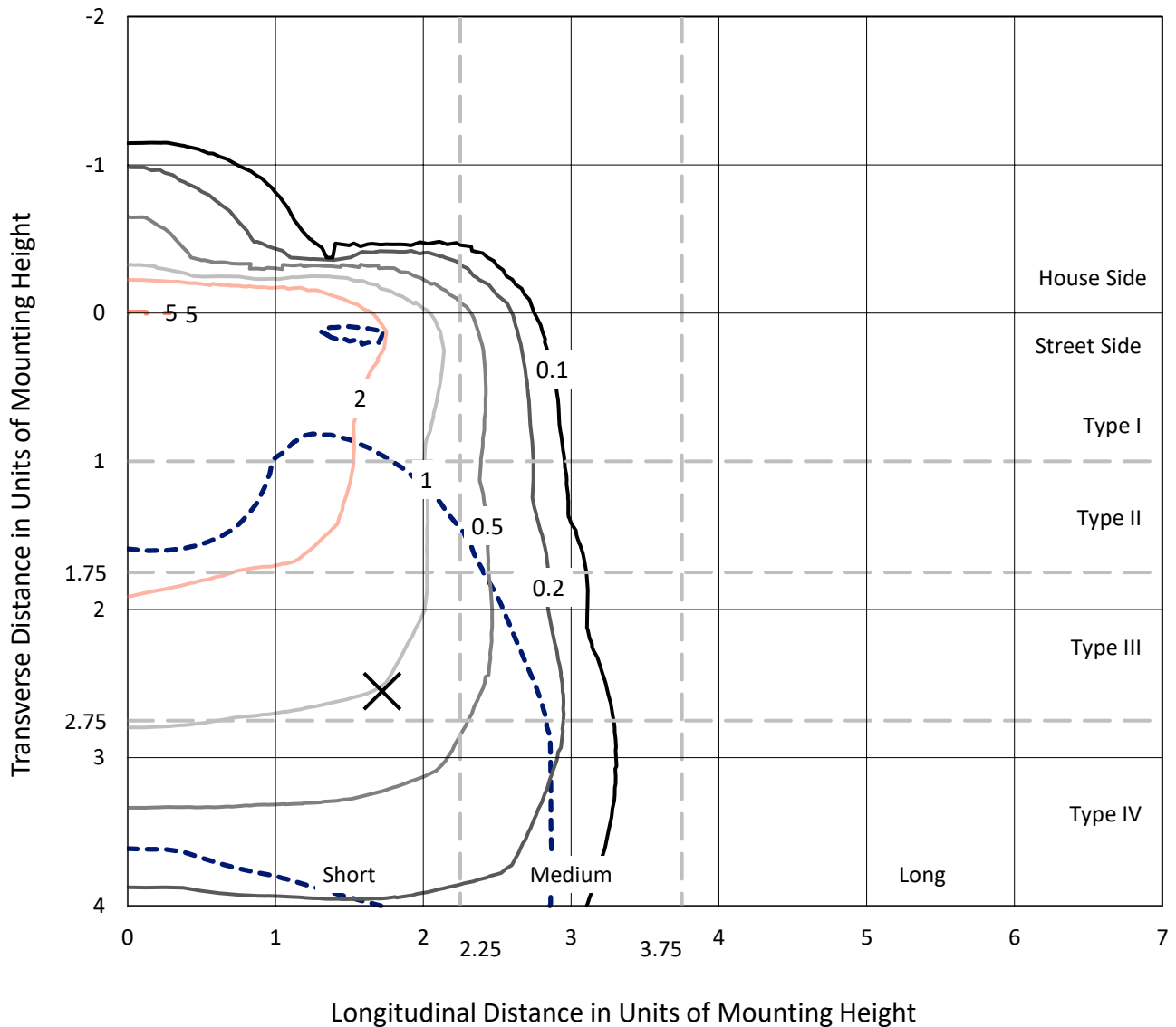
Lumens per Lamp: N/A
Luminaire Lumens: 13811.4 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

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Iso-Footcandle Lines of Horizontal Illumination

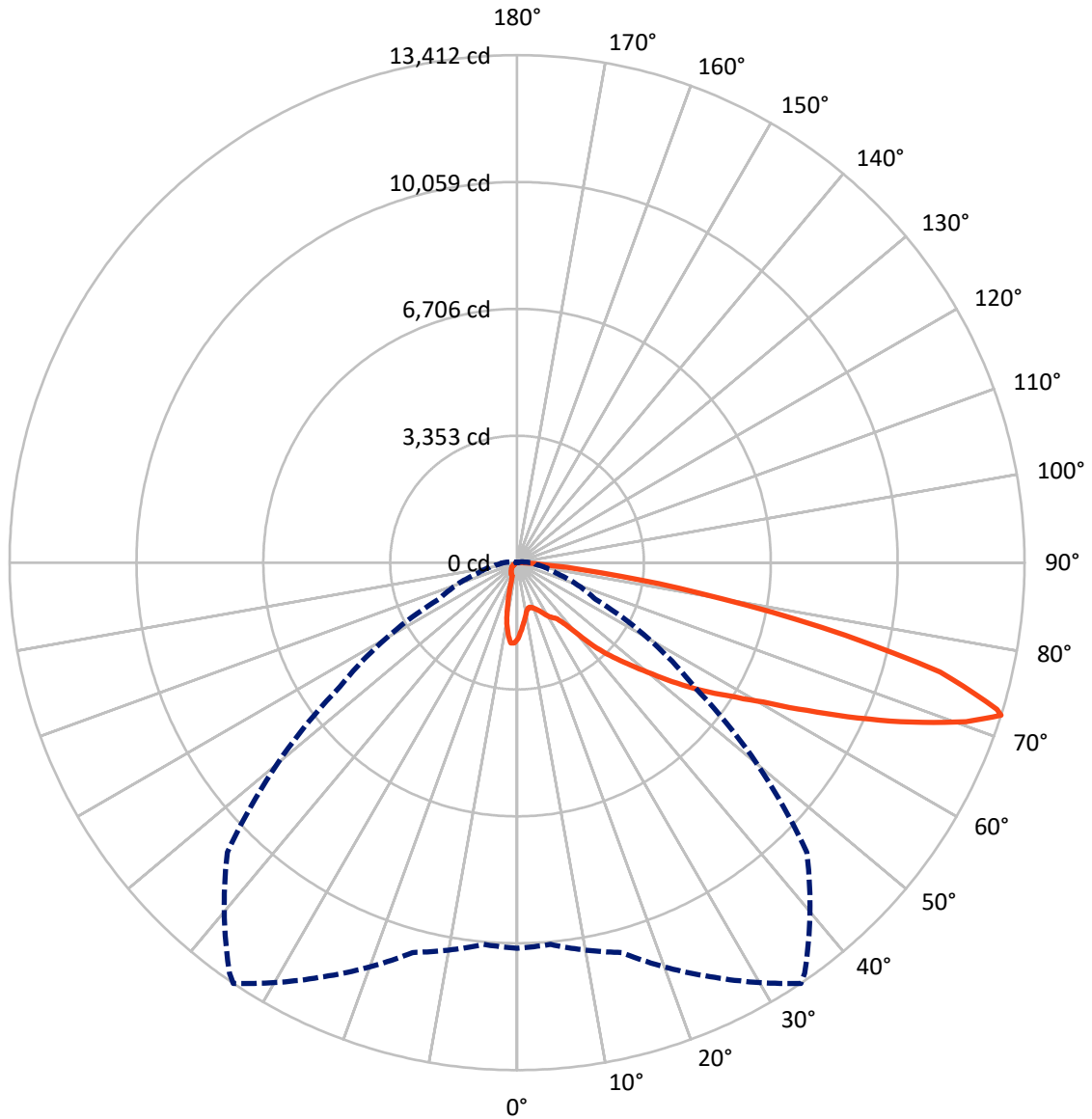
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.0	0.0	1414.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	12397.5	0.0	12397.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	13811.4	0.0	13811.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	1.3
10°-20°	397.1	2.9
20°-30°	599.4	4.3
30°-40°	972.7	7.0
40°-50°	1829.2	13.2
50°-60°	2990.7	21.7
60°-70°	3975.7	28.8
70°-80°	2662.5	19.3
80°-90°	208.7	1.5
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°	13811.4	100.0
0°-180°	13811.4	100.0

Coefficient of Utilization



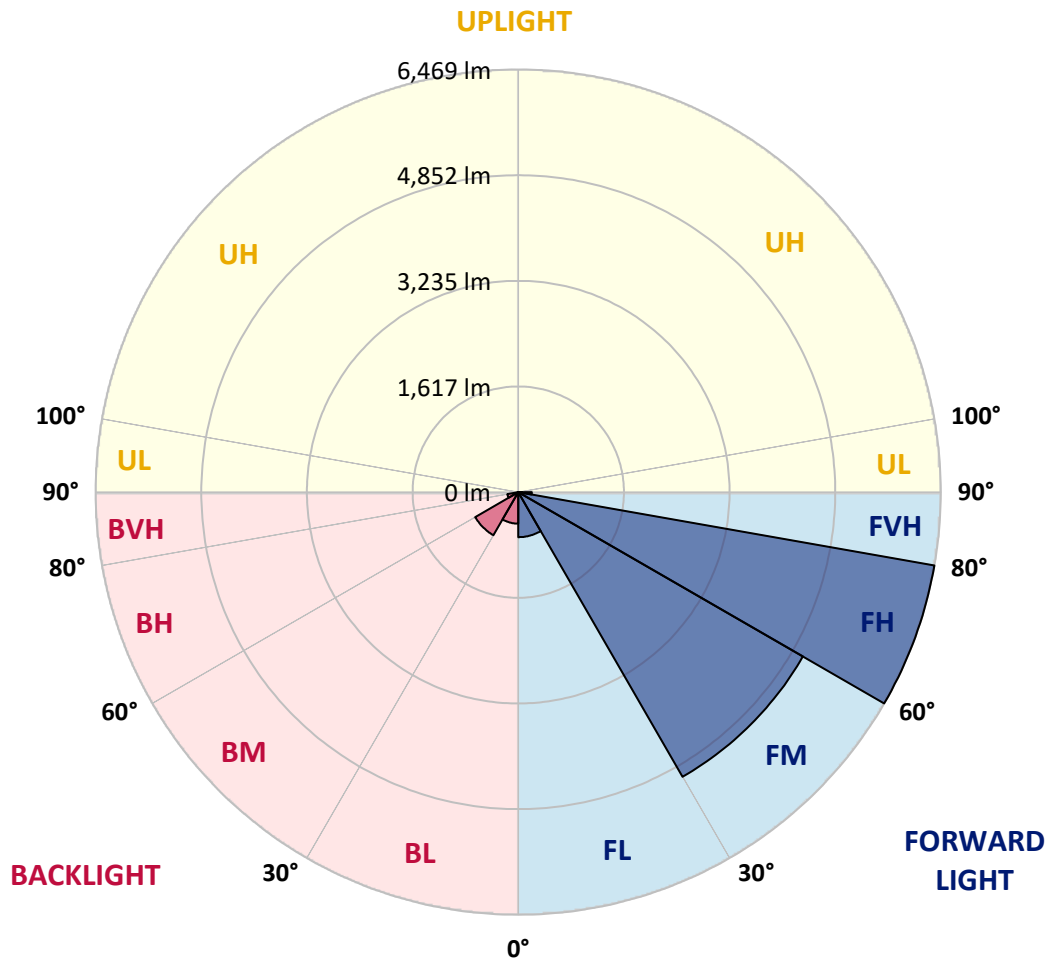
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.5	5.0			
FM (30°-60°)	5031.5	36.4			
FH (60°-80°)	6469.2	46.8			G3/7500
FVH (80°-90°)	207.3	1.5			G2/225
BL (0°-30°)	482.4	3.5	B1/500		
BM (30°-60°)	761.1	5.5	B1/1000		
BH (60°-80°)	169.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	1787.0	1783.0	1795.0	1815.0	1834.9	1826.9	1864.9	1904.8	1932.8	1970.7	2016.6
5°	1561.4	1571.4	1583.4	1623.3	1649.2	1655.2	1725.1	1777.0	1862.9	1950.7	2032.6
7.5°	1355.7	1367.7	1391.7	1435.6	1489.5	1503.5	1573.4	1677.2	1789.0	1904.8	2038.6
10°	1206.0	1218.0	1243.9	1271.9	1343.8	1343.8	1439.6	1583.4	1729.1	1864.9	2040.6
12.5°	1174.0	1180.0	1178.0	1200.0	1245.9	1255.9	1349.7	1507.5	1677.2	1850.9	2072.5
15°	1212.0	1216.0	1196.0	1184.0	1224.0	1233.9	1321.8	1461.6	1643.3	1858.9	2124.4
17.5°	1287.8	1273.9	1233.9	1216.0	1249.9	1255.9	1337.8	1459.6	1639.3	1880.9	2184.3
20°	1331.8	1347.7	1277.9	1243.9	1291.8	1299.8	1387.7	1491.5	1659.2	1918.8	2268.2
22.5°	1409.6	1417.6	1323.8	1301.8	1347.7	1347.7	1447.6	1555.4	1707.1	1980.7	2368.0
25°	1519.5	1509.5	1399.7	1377.7	1421.6	1439.6	1539.4	1657.2	1781.0	2038.6	2459.9
27.5°	1605.3	1611.3	1521.5	1463.6	1537.4	1549.4	1657.2	1767.0	1836.9	2086.5	2571.7
30°	1733.1	1721.1	1625.3	1559.4	1651.2	1653.2	1757.1	1870.9	1944.7	2172.4	2739.4
32.5°	1884.8	1860.9	1751.1	1657.2	1731.1	1749.1	1854.9	2020.6	2112.5	2334.1	2999.0
35°	2206.3	2148.4	1968.7	1823.0	1828.9	1836.9	2000.7	2238.3	2344.1	2539.8	3346.4
37.5°	2675.5	2651.6	2447.9	2170.4	2064.5	2040.6	2224.3	2525.8	2657.6	2811.3	3797.7
40°	3140.8	3106.8	2917.1	2707.5	2515.8	2467.9	2559.7	2907.1	3026.9	3188.7	4260.9
42.5°	3657.9	3598.0	3374.4	3204.6	3084.8	3032.9	2997.0	3386.3	3522.1	3631.9	4714.1
45°	4181.0	4083.2	3759.7	3629.9	3566.0	3538.1	3534.1	3989.3	4071.2	4093.2	5217.3
47.5°	4640.2	4534.4	4240.9	4095.2	4047.2	4039.2	4262.9	4684.2	4620.3	4562.4	5778.3
50°	4993.7	4925.8	4714.1	4662.2	4626.3	4612.3	5135.4	5399.0	5103.5	5001.6	6271.5
52.5°	5540.7	5389.0	5149.4	5167.4	5293.2	5295.1	6019.9	6077.8	5504.8	5303.1	6736.7
55°	5978.0	5878.2	5682.5	5656.5	5988.0	6023.9	6812.6	6593.0	5728.4	5590.7	6908.5
57.5°	6493.1	6447.2	6305.5	6309.5	6656.9	6732.7	7517.4	7028.3	5914.1	5776.3	6934.4
60°	7237.9	7106.1	7032.2	7066.2	7475.5	7549.4	8200.3	7341.7	6004.0	5898.1	6870.5
62.5°	8060.5	7906.8	7826.9	8000.6	8597.6	8609.6	8719.4	7619.3	5948.1	5930.1	6459.2
65°	9050.9	8899.1	8835.2	9184.6	9893.5	9849.5	9448.2	7737.1	5770.4	5608.6	5379.0
67.5°	10037.2	9945.4	9813.6	10370.7	11253.2	11253.2	10204.9	7693.1	5305.1	4502.5	3518.1
70°	10504.4	10568.3	10778.0	11652.5	12589.0	12493.1	10951.7	7188.0	3949.4	2418.0	1383.7
72°	10193.0	10127.1	10668.2	12071.8	13411.6	13253.8	10825.9	5714.4	2282.2	1060.2	481.2
72.5°	9657.9	9719.8	10464.5	12013.9	13257.8	13387.6	10518.4	5271.2	1876.9	844.6	363.4
75°	5922.1	6027.9	7810.9	10200.9	11552.7	11406.9	8136.4	2511.8	720.8	359.4	129.8
77.5°	2162.4	2250.2	3789.7	6419.3	8216.3	8124.4	4708.1	892.5	391.3	267.6	65.9
80°	563.1	609.0	1287.8	2961.1	4831.9	4837.9	1970.7	357.4	265.6	219.6	39.9
82.5°	111.8	123.8	395.3	1152.1	2258.2	2228.3	623.0	191.7	199.7	179.7	28.0
85°	14.0	18.0	83.9	391.3	730.8	654.9	153.7	95.8	147.8	139.8	18.0
87.5°	2.0	2.0	20.0	89.8	153.7	149.7	31.9	29.9	65.9	85.9	10.0
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°	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	2042.6	2050.6	2078.5	2102.5	2130.4	2138.4	2126.4	2146.4	2118.5	2134.4	2138.4
5°	2046.6	2092.5	2144.4	2178.4	2170.4	2150.4	2134.4	2080.5	2042.6	2028.6	2058.6
7.5°	2074.5	2126.4	2182.4	2182.4	2138.4	2034.6	1934.8	1838.9	1759.1	1719.1	1753.1
10°	2110.5	2164.4	2222.3	2146.4	1982.7	1793.0	1651.2	1471.5	1349.7	1285.9	1291.8
12.5°	2158.4	2234.3	2254.2	2078.5	1807.0	1525.5	1267.9	1018.3	902.5	810.6	812.6
15°	2220.3	2294.2	2234.3	1930.8	1583.4	1168.0	858.6	621.0	529.1	481.2	481.2
17.5°	2302.2	2358.1	2228.3	1795.0	1281.9	798.7	527.1	419.3	399.3	391.3	391.3
20°	2398.0	2439.9	2170.4	1583.4	952.4	513.1	387.4	375.4	377.4	373.4	373.4
22.5°	2505.8	2519.8	2104.5	1337.8	644.9	379.4	361.4	363.4	365.4	361.4	363.4
25°	2619.6	2581.7	2008.6	1050.2	429.3	345.4	349.4	353.4	355.4	357.4	357.4
27.5°	2747.4	2671.5	1874.9	768.7	335.4	325.5	337.4	349.4	351.4	351.4	349.4
30°	2935.1	2809.3	1745.1	521.1	295.5	303.5	323.5	337.4	347.4	347.4	345.4
32.5°	3172.7	2953.1	1563.4	355.4	273.5	277.5	293.5	321.5	343.4	345.4	339.4
35°	3502.1	3126.8	1373.7	283.5	257.6	259.6	269.5	291.5	329.4	341.4	339.4
37.5°	3849.6	3324.4	1138.1	255.6	245.6	243.6	249.6	267.6	301.5	331.4	333.4
40°	4218.9	3532.1	890.5	241.6	235.6	231.6	233.6	241.6	267.6	305.5	313.5
42.5°	4566.4	3719.8	668.9	227.6	225.6	221.6	221.6	223.6	237.6	263.6	267.6
45°	4941.7	3873.5	509.1	217.6	211.6	213.6	205.7	201.7	211.6	213.6	211.6
47.5°	5293.2	4027.3	407.3	205.7	199.7	199.7	189.7	181.7	181.7	163.7	161.7
50°	5622.6	4111.1	325.5	189.7	187.7	185.7	171.7	157.7	145.8	123.8	119.8
52.5°	5896.1	4107.1	251.6	169.7	175.7	169.7	147.8	127.8	109.8	89.8	85.9
55°	5978.0	3915.5	189.7	139.8	149.7	141.8	117.8	99.8	79.9	63.9	61.9
57.5°	5908.1	3623.9	143.8	107.8	115.8	107.8	89.8	73.9	55.9	43.9	39.9
60°	5674.5	3282.5	111.8	83.9	87.9	81.9	67.9	55.9	39.9	28.0	24.0
62.5°	5231.3	2855.2	85.9	65.9	63.9	63.9	51.9	41.9	28.0	16.0	14.0
65°	4292.8	2226.3	65.9	45.9	45.9	45.9	39.9	29.9	18.0	8.0	4.0
67.5°	2695.5	1295.8	53.9	35.9	33.9	33.9	28.0	20.0	10.0	2.0	0.0
70°	1014.3	475.2	41.9	28.0	26.0	26.0	20.0	12.0	6.0	0.0	0.0
72°	349.4	181.7	33.9	20.0	20.0	18.0	14.0	10.0	4.0	0.0	0.0
72.5°	287.5	145.8	31.9	20.0	18.0	18.0	14.0	10.0	4.0	0.0	0.0
75°	103.8	59.9	22.0	14.0	12.0	12.0	10.0	6.0	2.0	0.0	0.0
77.5°	51.9	37.9	18.0	12.0	10.0	6.0	6.0	4.0	2.0	0.0	0.0
80°	31.9	24.0	10.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	22.0	14.0	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	4.0	2.0	0.0	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)