

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: P480452

Luminaire Tested: **IFLD-S-SA2A-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480452
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

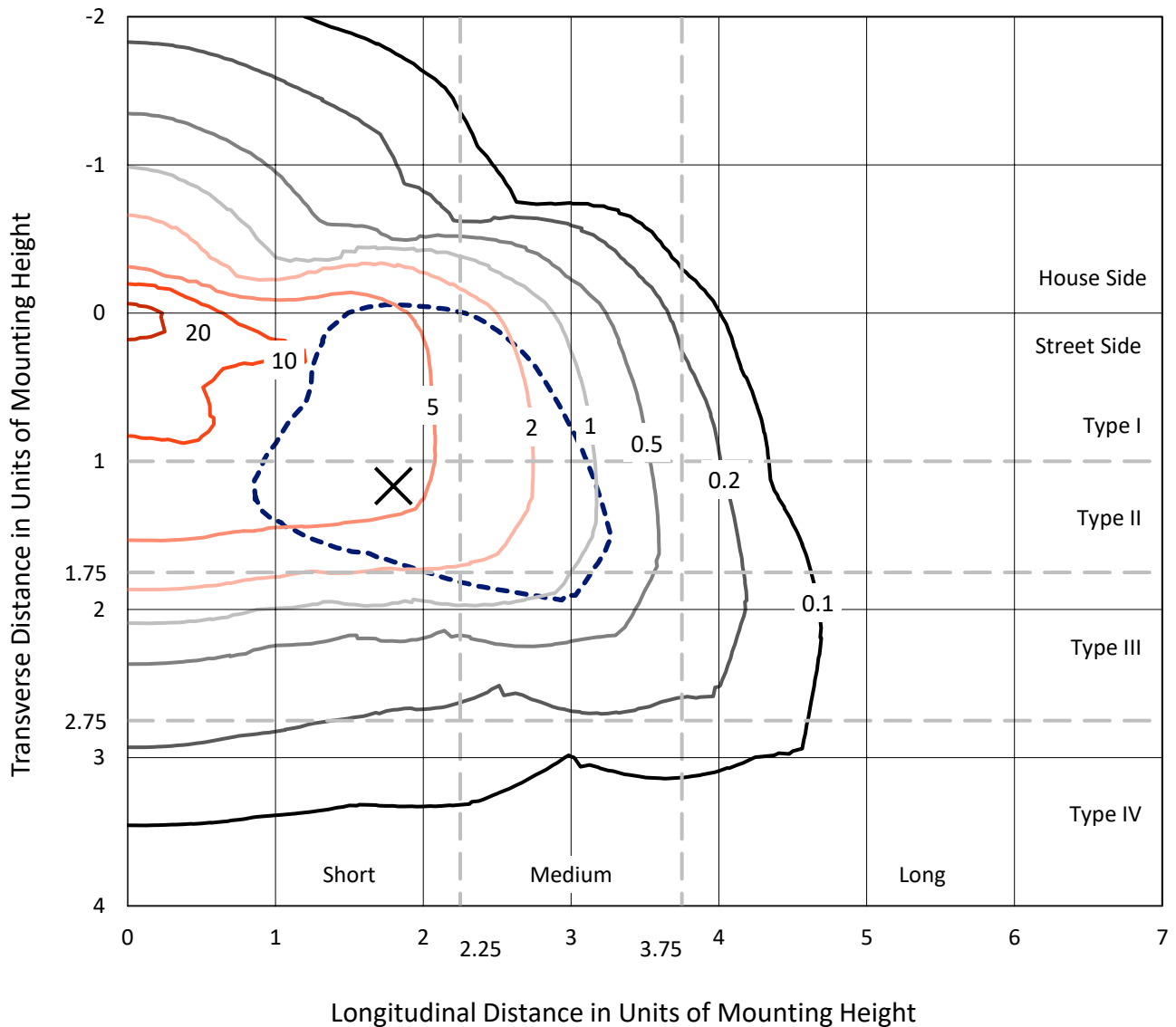
Lumens per Lamp: N/A
Luminaire Lumens: 8984.9 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

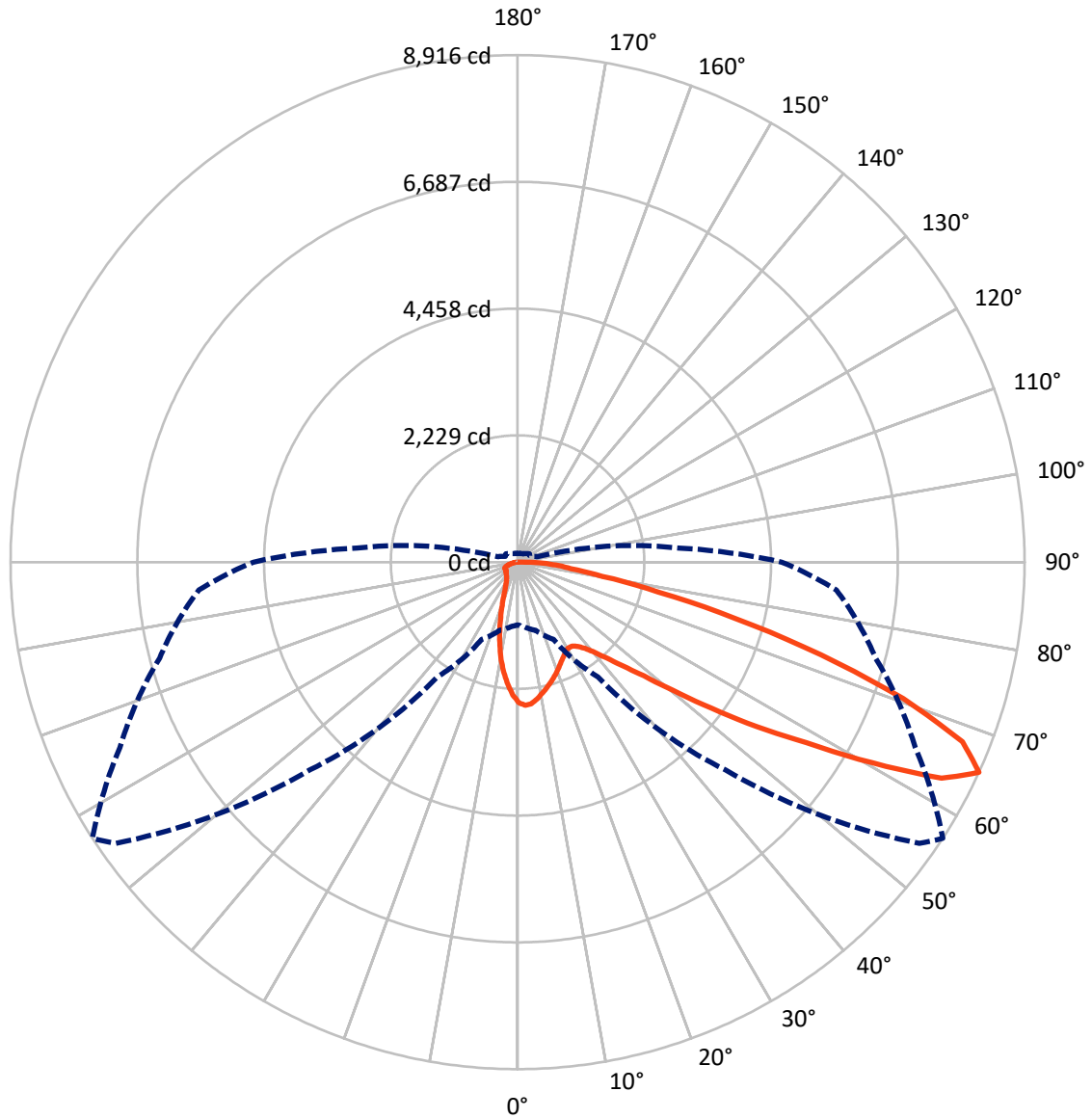
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1377.9	0.0	1377.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7606.9	0.0	7606.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	8984.9	0.0	8984.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	2.3
10°-20°	445.3	5.0
20°-30°	575.7	6.4
30°-40°	774.7	8.6
40°-50°	1235.3	13.7
50°-60°	2181.9	24.3
60°-70°	2400.4	26.7
70°-80°	1004.1	11.2
80°-90°	160.5	1.8
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°	8984.9	100.0
0°-180°	8984.9	100.0

Coefficient of Utilization

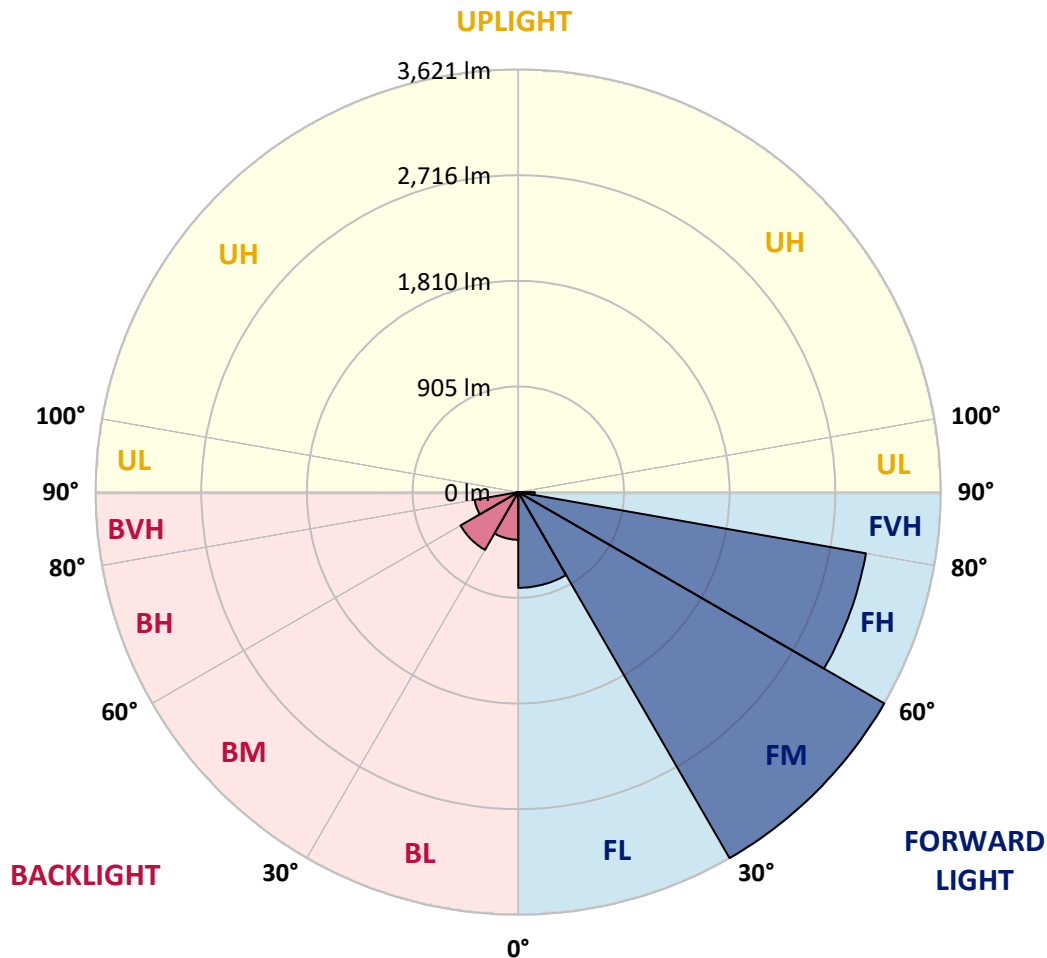


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.8	9.1			
FM (30°-60°)	3620.9	40.3			
FH (60°-80°)	3024.6	33.7			G2/5000
FVH (80°-90°)	141.6	1.6			G2/225
BL (0°-30°)	408.1	4.5	B1/500		
BM (30°-60°)	571.1	6.4	B1/1000		
BH (60°-80°)	379.9	4.2	B1/500		G1/500
BVH (80°-90°)	18.8	0.2			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7
2.5°	2537.4	2541.5	2541.5	2549.6	2522.3	2535.4	2533.4	2521.3	2525.3	2504.1	2482.8
5°	2465.7	2462.6	2478.8	2480.8	2502.0	2508.1	2513.2	2505.1	2507.1	2460.6	2440.4
7.5°	2281.7	2280.7	2308.0	2331.2	2375.7	2417.1	2444.4	2436.3	2447.5	2418.1	2370.6
10°	2063.3	2086.6	2114.9	2138.1	2220.0	2272.6	2343.3	2350.4	2392.9	2385.8	2299.9
12.5°	1899.5	1909.6	1930.9	1997.6	2072.4	2159.3	2260.4	2269.5	2311.0	2331.2	2256.4
15°	1765.1	1774.2	1801.5	1851.0	1934.9	2038.0	2166.4	2189.7	2272.6	2279.6	2199.8
17.5°	1667.0	1674.1	1692.3	1741.8	1810.6	1943.0	2064.3	2105.8	2214.9	2249.3	2141.1
20°	1628.6	1613.4	1623.6	1654.9	1723.6	1825.7	1982.4	2018.8	2158.3	2226.1	2085.5
22.5°	1611.4	1598.3	1604.3	1602.3	1656.9	1729.7	1894.5	1932.9	2104.8	2198.8	2036.0
25°	1624.6	1624.6	1618.5	1613.4	1619.5	1667.0	1799.5	1859.1	2033.0	2175.5	1985.5
27.5°	1695.3	1668.0	1671.1	1649.8	1643.8	1643.8	1757.0	1792.4	2009.7	2162.4	1944.0
30°	1740.8	1754.0	1755.0	1723.6	1692.3	1635.7	1717.6	1751.9	1990.5	2178.6	1919.8
32.5°	1857.1	1851.0	1833.8	1827.8	1781.3	1717.6	1736.8	1760.0	1979.4	2214.9	1926.8
35°	1973.3	1970.3	1971.3	1968.3	1919.8	1825.7	1788.3	1819.7	1999.6	2278.6	1951.1
37.5°	2093.6	2101.7	2136.1	2136.1	2084.5	1982.4	1932.9	1923.8	2073.4	2382.8	2008.7
40°	2213.9	2234.2	2277.6	2346.4	2273.6	2178.6	2098.7	2084.5	2162.4	2522.3	2147.2
42.5°	2329.2	2362.5	2448.5	2550.6	2526.3	2431.3	2325.1	2309.0	2345.4	2729.5	2340.3
45°	2476.8	2505.1	2640.5	2797.2	2830.6	2746.7	2622.4	2609.2	2607.2	3032.8	2606.2
47.5°	2701.2	2731.5	2867.0	3024.7	3127.8	3141.0	3001.4	2987.3	2938.8	3442.2	2995.4
50°	2982.2	3031.8	3146.0	3330.0	3479.6	3620.1	3580.7	3539.3	3444.2	3918.4	3488.7
52.5°	3187.5	3248.1	3402.8	3638.3	3902.2	4125.6	4267.1	4267.1	4048.8	4441.0	4082.1
55°	3242.1	3278.4	3473.6	3814.2	4266.1	4831.2	5127.4	5105.2	4768.6	4991.0	4772.6
57.5°	3024.7	3072.2	3308.8	3665.6	4457.2	5491.4	5981.7	5986.7	5555.1	5629.9	5454.0
60°	2426.2	2441.4	2720.4	3197.6	4273.2	6023.1	7148.3	7167.5	6449.7	6199.0	5800.7
62.5°	1677.1	1725.7	1935.9	2354.5	3540.3	5963.5	8273.4	8368.5	7166.5	6499.3	5855.3
65°	1103.9	1133.3	1245.5	1500.2	2464.6	5168.9	8623.2	8916.4	7714.4	6516.5	5626.8
67.5°	800.7	805.7	839.1	970.5	1481.0	3717.2	8025.8	8439.2	7919.6	6372.9	5091.0
70°	647.0	651.0	663.2	747.1	956.3	2326.1	6545.8	7193.8	7304.0	5692.5	4100.3
72.5°	525.7	530.7	545.9	624.8	788.5	1294.0	4786.8	5576.3	5941.2	4211.5	2725.5
75°	413.5	417.5	453.9	531.7	741.0	888.6	3175.3	3948.7	3998.2	2461.6	1275.8
77.5°	283.1	290.1	334.6	450.9	697.5	777.4	1979.4	2529.3	2269.5	963.4	438.7
80°	179.9	190.1	216.3	341.7	616.7	742.0	1231.3	1510.3	993.7	329.6	211.3
82.5°	106.1	116.3	142.5	221.4	484.2	688.4	867.4	945.2	466.0	168.8	127.4
85°	58.6	65.7	85.9	133.4	284.1	611.6	694.5	678.3	266.9	90.0	79.9
87.5°	19.2	22.2	31.3	53.6	117.3	288.1	416.5	391.2	138.5	41.4	31.3
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°	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7
2.5°	2468.7	2465.7	2420.2	2385.8	2327.2	2278.6	2259.4	2233.1	2232.1	2212.9	2207.9
5°	2409.0	2377.7	2308.0	2241.2	2137.1	2067.4	2003.7	1959.2	1941.0	1901.6	1892.5
7.5°	2332.2	2290.8	2183.6	2058.3	1935.9	1826.7	1727.7	1628.6	1573.0	1553.8	1532.6
10°	2252.4	2179.6	2020.8	1880.3	1709.5	1541.7	1386.0	1246.5	1170.7	1117.1	1093.8
12.5°	2188.7	2091.6	1889.4	1679.2	1453.7	1229.3	1048.3	901.7	815.8	775.4	757.2
15°	2116.9	1988.5	1745.9	1480.0	1199.0	944.2	767.3	652.0	617.7	598.5	595.4
17.5°	2041.1	1892.5	1590.2	1283.9	950.3	710.7	596.4	549.9	534.8	526.7	522.7
20°	1970.3	1806.5	1430.5	1065.5	744.0	570.2	516.6	492.3	491.3	495.4	494.3
22.5°	1870.2	1694.3	1272.8	863.3	594.4	496.4	462.0	455.9	462.0	467.0	469.1
25°	1813.6	1602.3	1096.9	685.4	491.3	440.8	429.6	427.6	436.7	442.8	441.8
27.5°	1755.0	1507.3	933.1	548.9	430.7	401.3	399.3	401.3	410.4	419.5	418.5
30°	1709.5	1431.5	779.4	459.0	384.2	373.0	371.0	373.0	378.1	379.1	379.1
32.5°	1672.1	1341.5	649.0	398.3	355.8	346.7	348.8	347.8	348.8	349.8	350.8
35°	1649.8	1287.9	541.9	360.9	332.6	325.5	324.5	321.5	322.5	323.5	322.5
37.5°	1697.4	1261.6	456.9	334.6	316.4	310.4	308.3	306.3	303.3	303.3	303.3
40°	1769.1	1247.5	405.4	317.4	304.3	297.2	291.1	289.1	289.1	290.1	291.1
42.5°	1911.7	1270.7	370.0	304.3	289.1	281.0	275.0	276.0	279.0	282.0	280.0
45°	2117.9	1341.5	353.8	294.2	280.0	268.9	264.9	263.9	266.9	271.9	276.0
47.5°	2387.8	1451.7	347.8	285.1	274.0	258.8	253.7	256.8	260.8	267.9	264.9
50°	2829.6	1699.4	352.8	277.0	264.9	253.7	247.7	244.6	247.7	252.7	254.8
52.5°	3406.8	2149.2	372.0	273.0	258.8	249.7	239.6	234.5	237.6	241.6	241.6
55°	4097.3	2763.9	425.6	267.9	248.7	243.6	232.5	222.4	224.4	224.4	223.4
57.5°	4705.9	3227.9	489.3	260.8	242.6	235.5	221.4	209.3	207.2	208.3	209.3
60°	4978.8	3351.2	519.6	258.8	242.6	225.4	206.2	194.1	191.1	189.0	189.0
62.5°	4931.3	3137.9	458.0	249.7	248.7	217.3	192.1	178.9	174.9	170.8	171.9
65°	4644.2	2833.6	360.9	237.6	249.7	212.3	177.9	164.8	157.7	152.7	151.6
67.5°	4119.5	2419.2	286.1	228.5	239.6	203.2	165.8	150.6	144.6	139.5	137.5
70°	3222.8	1896.5	248.7	216.3	215.3	181.0	151.6	138.5	129.4	123.3	123.3
72.5°	2089.6	1199.0	213.3	192.1	186.0	151.6	131.4	123.3	116.3	111.2	111.2
75°	946.2	557.0	171.9	160.7	151.6	121.3	111.2	107.2	101.1	96.0	96.0
77.5°	339.7	237.6	128.4	126.4	113.2	94.0	90.0	86.9	82.9	77.8	77.8
80°	190.1	150.6	96.0	92.0	78.9	69.8	64.7	64.7	62.7	59.6	58.6
82.5°	120.3	98.1	70.8	61.7	51.6	46.5	44.5	43.5	42.5	38.4	37.4
85°	75.8	66.7	46.5	36.4	30.3	23.3	22.2	21.2	19.2	17.2	17.2
87.5°	34.4	38.4	18.2	11.1	8.1	5.1	3.0	1.0	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)