

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: P480805

Luminaire Tested: **IFLD-S-SA2C-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

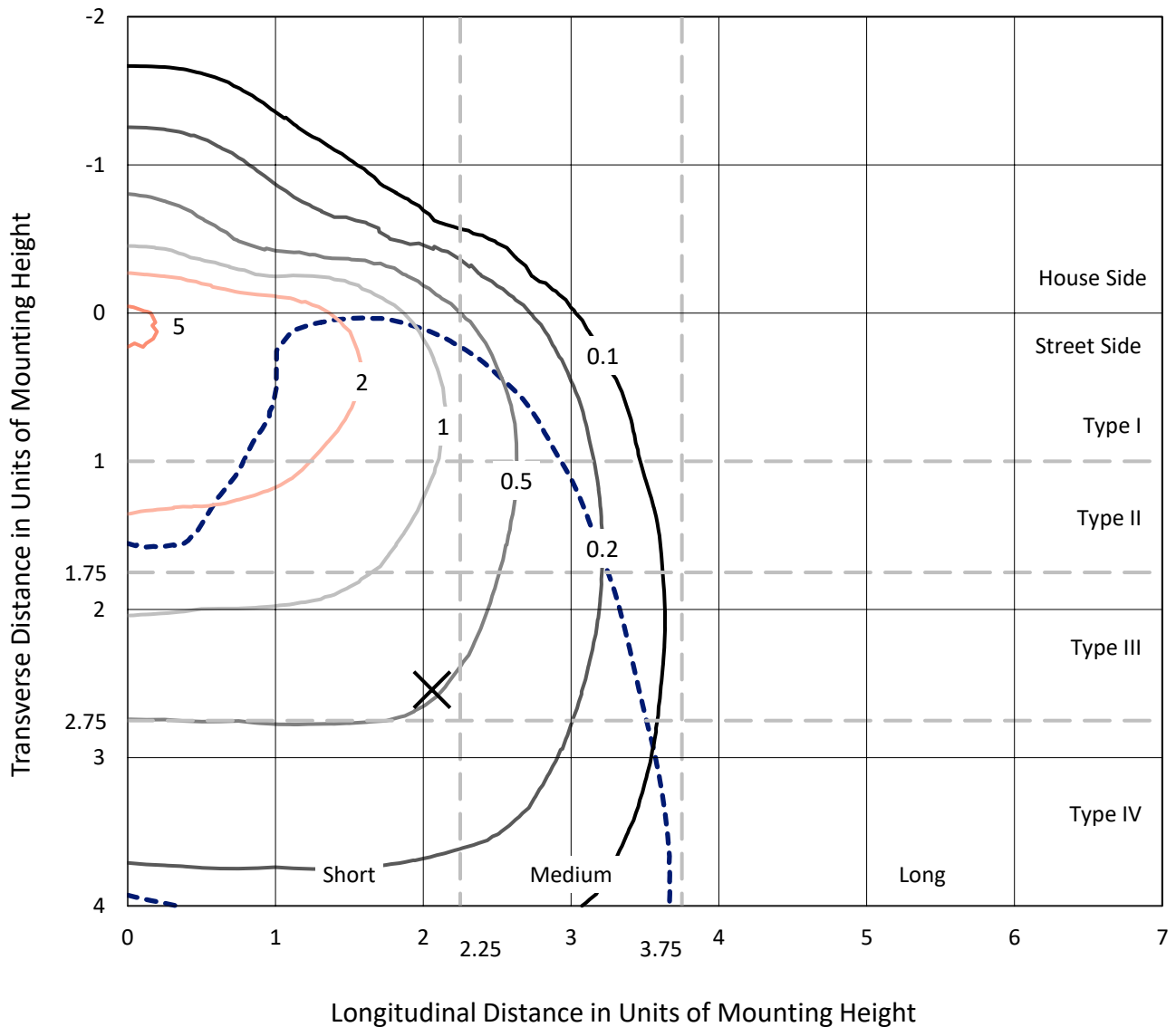
Lumens per Lamp: N/A
Luminaire Lumens: 12519.2 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

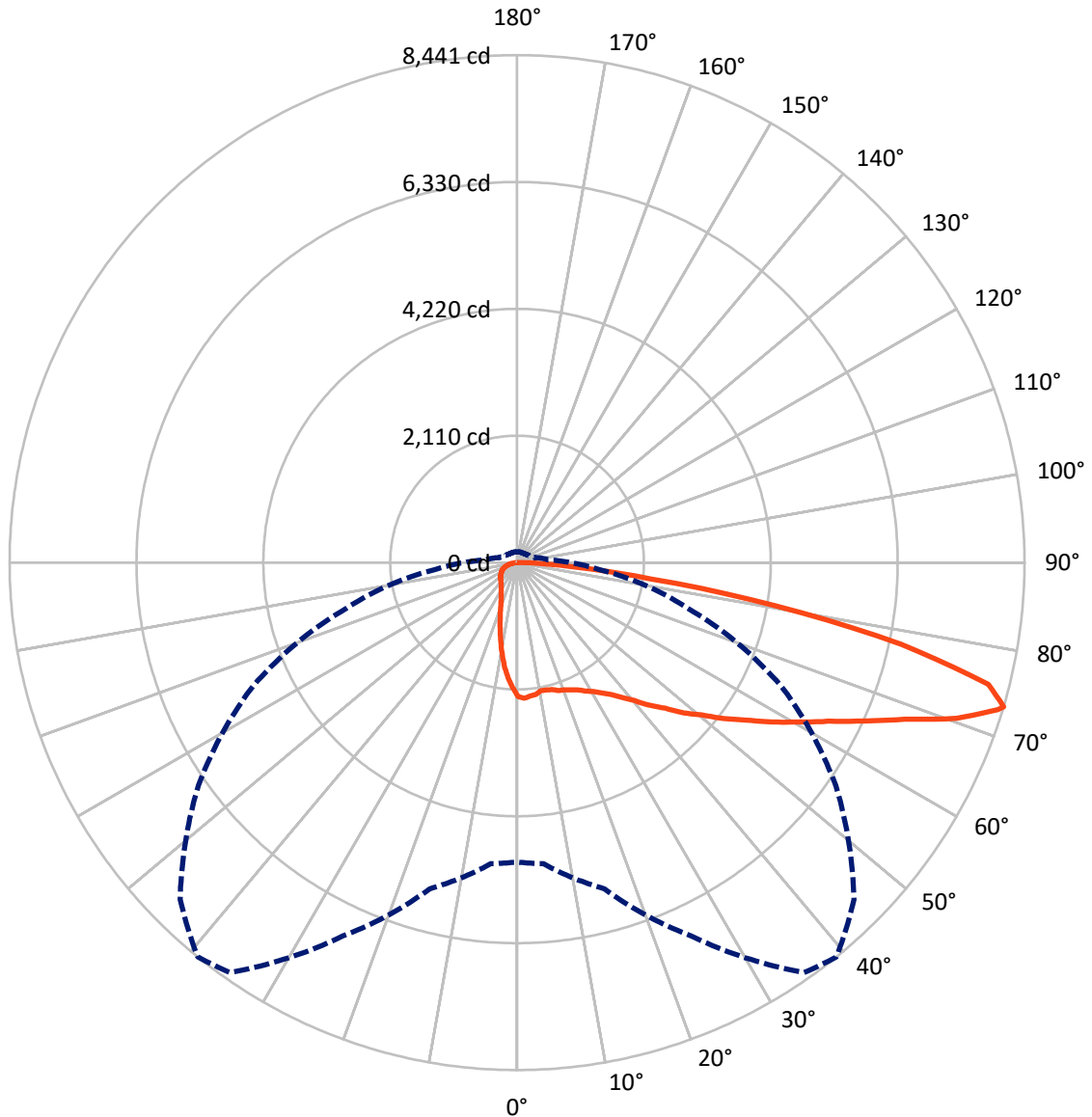
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1759.8	0.0	1759.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10759.4	0.0	10759.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	12519.2	0.0	12519.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	1.5
10°-20°	491.8	3.9
20°-30°	751.5	6.0
30°-40°	1095.7	8.8
40°-50°	1655.7	13.2
50°-60°	2397.6	19.2
60°-70°	3046.2	24.3
70°-80°	2469.5	19.7
80°-90°	417.8	3.3
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°	12519.2	100.0
0°-180°	12519.2	100.0

Coefficient of Utilization



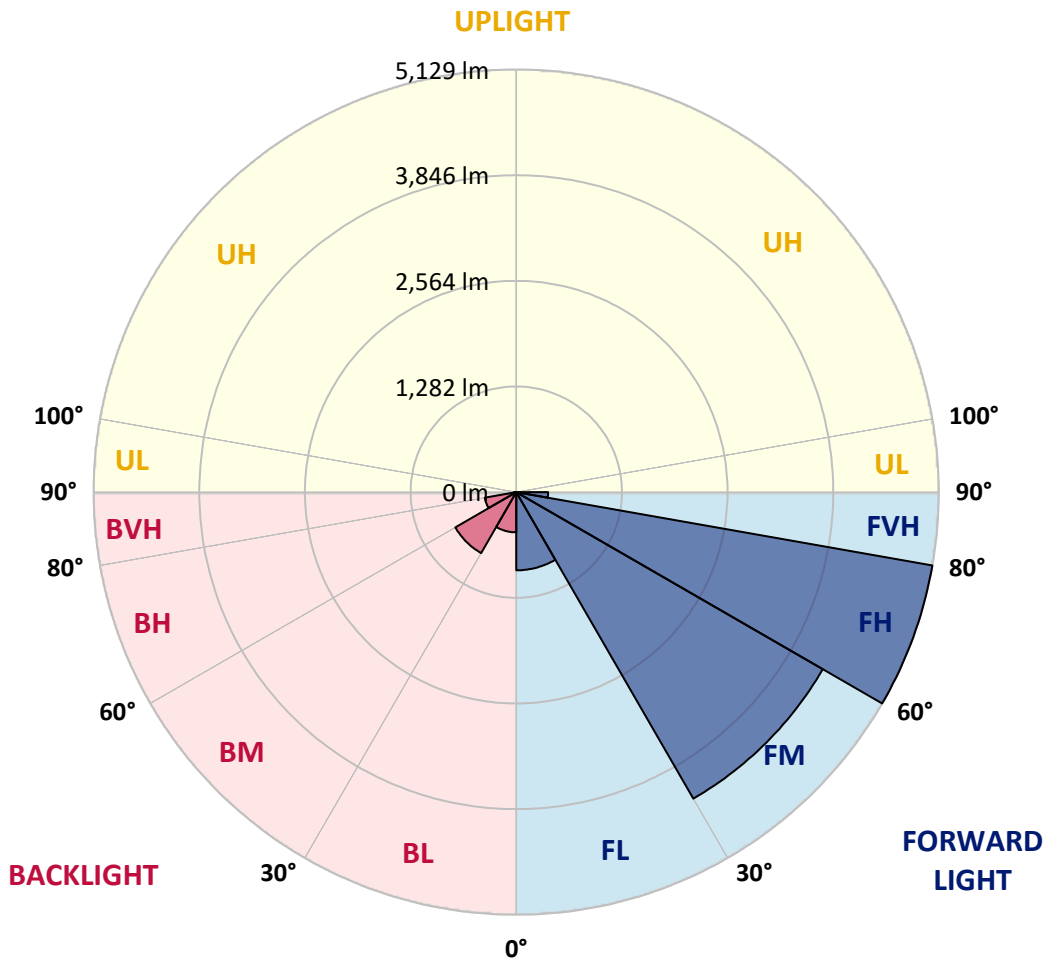
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.7	7.6			
FM (30°-60°)	4294.9	34.3			
FH (60°-80°)	5128.6	41.0			G3/7500
FVH (80°-90°)	387.2	3.1			G3/500
BL (0°-30°)	488.0	3.9	B1/500		
BM (30°-60°)	854.1	6.8	B1/1000		
BH (60°-80°)	387.1	3.1	B1/500		G1/500
BVH (80°-90°)	30.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5
2.5°	2281.7	2257.9	2262.1	2253.7	2262.1	2259.3	2255.1	2234.1	2255.1	2234.1	2228.5
5°	2250.9	2250.9	2264.9	2243.9	2246.7	2232.7	2246.7	2231.3	2217.3	2182.3	2172.5
7.5°	2241.1	2239.7	2241.1	2211.7	2225.7	2217.3	2203.3	2186.5	2158.5	2136.1	2103.8
10°	2173.9	2187.9	2172.5	2180.9	2192.1	2166.9	2165.5	2161.3	2148.7	2119.2	2099.6
12.5°	2137.5	2161.3	2169.7	2162.7	2172.5	2175.3	2166.9	2161.3	2145.9	2126.2	2070.2
15°	2152.9	2124.8	2148.7	2194.9	2185.1	2192.1	2193.5	2187.9	2180.9	2144.5	2108.0
17.5°	2157.1	2140.3	2190.7	2200.5	2213.1	2238.3	2221.5	2220.1	2193.5	2168.3	2115.0
20°	2166.9	2159.9	2200.5	2252.3	2253.7	2257.9	2266.3	2245.3	2231.3	2187.9	2106.6
22.5°	2203.3	2227.1	2264.9	2287.3	2299.9	2302.7	2302.7	2260.7	2245.3	2210.3	2145.9
25°	2312.5	2287.3	2340.6	2367.2	2349.0	2344.8	2335.0	2297.1	2280.3	2249.5	2164.1
27.5°	2392.4	2391.0	2421.8	2458.2	2409.2	2419.0	2384.0	2372.8	2335.0	2318.1	2196.3
30°	2501.6	2532.5	2531.0	2542.3	2477.8	2489.0	2444.2	2423.2	2402.2	2412.0	2291.5
32.5°	2641.7	2630.5	2648.7	2640.3	2575.9	2585.7	2532.5	2500.2	2507.2	2536.7	2421.8
35°	2731.3	2720.1	2727.1	2727.1	2707.5	2696.3	2673.9	2631.9	2665.5	2720.1	2567.5
37.5°	2828.0	2842.0	2882.6	2874.2	2849.0	2849.0	2846.2	2816.8	2860.2	2994.7	2800.0
40°	2913.4	2951.3	2976.5	2993.3	3022.7	3022.7	3046.5	3029.7	3108.1	3323.8	3084.3
42.5°	3003.1	3004.5	3141.8	3154.4	3220.2	3248.2	3266.4	3280.4	3427.5	3668.4	3388.3
45°	3117.9	3124.9	3245.4	3342.0	3444.3	3454.1	3522.7	3569.0	3749.7	4045.2	3718.8
47.5°	3269.2	3260.8	3389.7	3543.7	3671.2	3738.4	3821.1	3871.5	4094.2	4454.2	4080.2
50°	3468.1	3442.9	3517.1	3759.5	3909.3	3983.6	4130.6	4214.7	4475.2	4845.0	4328.1
52.5°	3710.4	3668.4	3727.2	3992.0	4160.1	4309.9	4450.0	4543.8	4815.6	5147.5	4511.6
55°	3966.8	3879.9	3896.7	4238.5	4480.8	4622.3	4814.2	4912.2	5189.6	5419.3	4695.1
57.5°	4220.3	4165.7	4132.0	4475.2	4863.2	4999.1	5175.6	5303.0	5538.3	5660.2	4850.6
60°	4433.2	4419.2	4364.6	4842.2	5268.0	5384.3	5569.1	5647.6	5825.5	5882.9	4853.4
62.5°	4608.3	4560.7	4647.5	5137.7	5679.8	5811.5	6014.6	6021.6	6147.6	6021.6	4710.5
65°	4745.5	4748.3	4887.0	5494.9	6156.0	6350.7	6514.6	6496.4	6415.2	5938.9	4373.0
67.5°	4870.2	4923.4	5126.5	5887.1	6768.1	6951.6	7133.7	6892.8	6488.0	5552.3	3713.2
70°	4968.3	5021.5	5450.1	6364.7	7489.5	7758.4	7799.1	7049.7	6153.2	4703.5	2801.4
72.5°	4957.0	5053.7	5633.6	6745.7	8129.6	8362.1	8034.4	6608.5	5126.5	3279.0	1634.6
73°	4980.9	5028.5	5618.2	6852.2	8324.3	8440.6	7925.1	6469.8	4835.2	2941.5	1382.5
75°	4521.4	4682.5	5339.4	6678.5	8115.6	8094.6	7297.6	5391.3	3437.3	1545.0	669.5
77.5°	3344.9	3447.1	4207.7	5492.1	6661.7	6527.2	5504.7	3445.7	1631.8	572.9	361.4
80°	1634.6	1714.4	2229.9	3171.2	4356.2	4367.4	3416.3	1792.9	698.9	323.6	246.5
82.5°	816.6	864.2	1071.5	1393.7	2143.1	2245.3	1732.7	1019.7	432.8	183.5	140.1
85°	533.7	567.3	659.7	682.1	909.0	959.5	806.8	795.6	281.5	99.4	113.5
87.5°	354.4	360.0	404.8	344.6	364.2	350.2	389.4	501.4	82.6	42.0	30.8
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°	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5
2.5°	2221.5	2201.9	2180.9	2151.5	2130.5	2098.2	2068.8	2056.2	2053.4	2054.8	2040.8
5°	2164.1	2136.1	2094.0	2033.8	1998.8	1945.6	1900.7	1876.9	1851.7	1855.9	1844.7
7.5°	2084.2	2053.4	1989.0	1918.9	1832.1	1756.5	1714.4	1655.6	1622.0	1596.8	1610.8
10°	2059.0	2005.8	1909.1	1812.5	1678.0	1578.6	1481.9	1414.7	1368.5	1323.7	1343.3
12.5°	2046.4	1993.2	1858.7	1715.8	1542.2	1390.9	1255.0	1172.4	1106.5	1067.3	1082.7
15°	2035.2	1969.4	1811.1	1609.4	1414.7	1215.8	1063.1	953.9	890.8	853.0	857.2
17.5°	2050.6	1956.8	1741.1	1505.7	1274.6	1061.7	892.2	778.8	714.4	690.5	684.9
20°	2035.2	1942.8	1672.4	1402.1	1134.6	914.7	752.2	658.3	613.5	593.9	589.7
22.5°	2040.8	1909.1	1601.0	1287.2	1004.3	791.4	658.3	586.9	551.9	542.1	544.9
25°	2067.4	1889.5	1529.6	1161.2	875.4	700.3	598.1	543.5	518.3	508.5	511.3
27.5°	2087.0	1906.3	1465.1	1042.1	766.2	619.1	547.7	511.3	494.4	487.4	486.0
30°	2136.1	1916.1	1402.1	935.7	676.5	565.9	512.7	483.2	472.0	467.8	466.4
32.5°	2208.9	1934.4	1329.3	837.6	610.7	515.5	484.6	459.4	456.6	452.4	453.8
35°	2327.9	1997.4	1248.0	753.6	547.7	481.8	455.2	438.4	438.4	438.4	442.6
37.5°	2498.8	2085.6	1175.2	673.7	507.1	452.4	430.0	424.4	421.6	425.8	428.6
40°	2718.7	2192.1	1116.4	610.7	472.0	432.8	413.2	410.4	409.0	407.6	410.4
42.5°	2959.7	2327.9	1065.9	561.7	446.8	411.8	397.8	395.0	389.4	392.2	396.4
45°	3199.2	2496.0	1021.1	522.5	430.0	400.6	381.0	379.6	376.8	375.4	382.4
47.5°	3465.3	2661.3	1007.1	498.6	417.4	383.8	369.8	368.4	360.0	358.6	364.2
50°	3672.6	2783.2	1022.5	487.4	399.2	371.2	361.4	354.4	347.4	340.4	340.4
52.5°	3815.5	2867.2	1033.7	479.0	389.4	354.4	341.8	339.0	332.0	325.0	322.2
55°	3944.3	2917.6	1036.5	480.4	379.6	334.8	326.4	325.0	320.8	309.6	306.8
57.5°	3987.8	2896.6	980.5	467.8	374.0	322.2	311.0	313.8	308.2	298.3	296.9
60°	3983.6	2751.0	853.0	451.0	361.4	308.2	294.1	302.5	302.5	291.3	289.9
62.5°	3741.2	2414.8	697.5	418.8	347.4	294.1	278.7	291.3	295.5	288.5	287.1
65°	3238.4	1966.6	582.7	386.6	326.4	278.7	263.3	277.3	284.3	281.5	280.1
67.5°	2679.5	1504.3	484.6	344.6	299.7	257.7	245.1	254.9	259.1	260.5	261.9
70°	1893.7	1001.5	404.8	298.3	263.3	235.3	221.3	222.7	221.3	225.5	225.5
72.5°	1029.5	577.1	329.2	253.5	226.9	204.5	194.7	187.7	187.7	186.3	186.3
73°	881.0	518.3	313.8	246.5	217.1	198.9	187.7	182.1	182.1	180.7	179.3
75°	494.4	379.6	268.9	211.5	187.7	173.7	165.3	156.9	155.5	155.5	155.5
77.5°	325.0	295.5	214.3	169.5	151.3	138.7	135.9	127.5	127.5	127.5	126.1
80°	243.7	232.5	165.3	128.9	116.3	106.5	103.7	98.0	96.6	91.0	92.4
82.5°	162.5	183.5	120.5	91.0	78.4	72.8	72.8	71.4	67.2	60.2	60.2
85°	128.9	149.9	86.8	56.0	46.2	39.2	40.6	39.2	37.8	30.8	29.4
87.5°	23.8	60.2	25.2	15.4	11.2	7.0	7.0	4.2	2.8	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)