

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: P484822

Luminaire Tested: **IFLD-S-SA2C-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484822
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-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

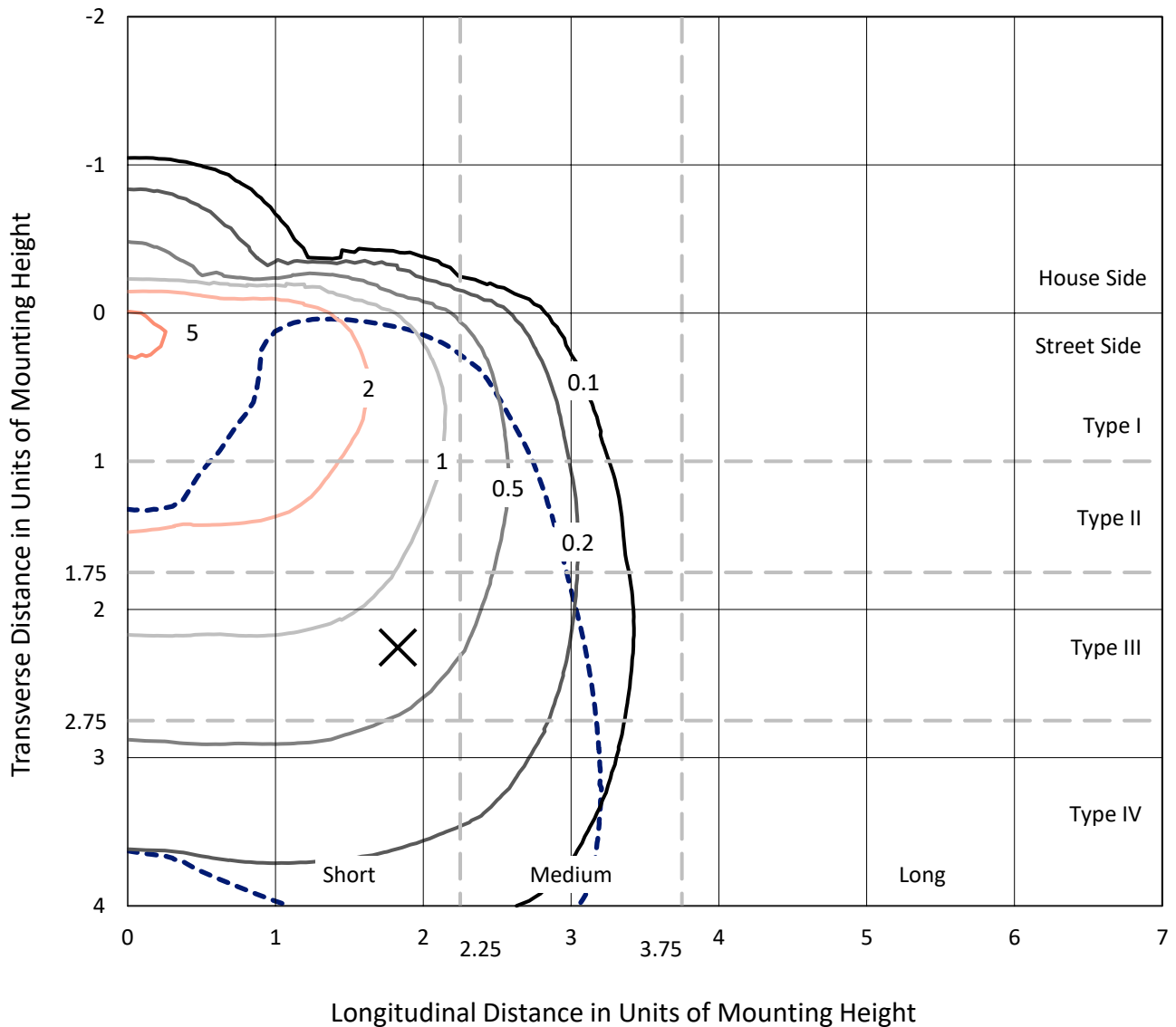
Lumens per Lamp: N/A
Luminaire Lumens: 12010.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

REPORT NUMBER: P484822
 CATALOG NUMBER: IFLD-S-SA2C-750-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

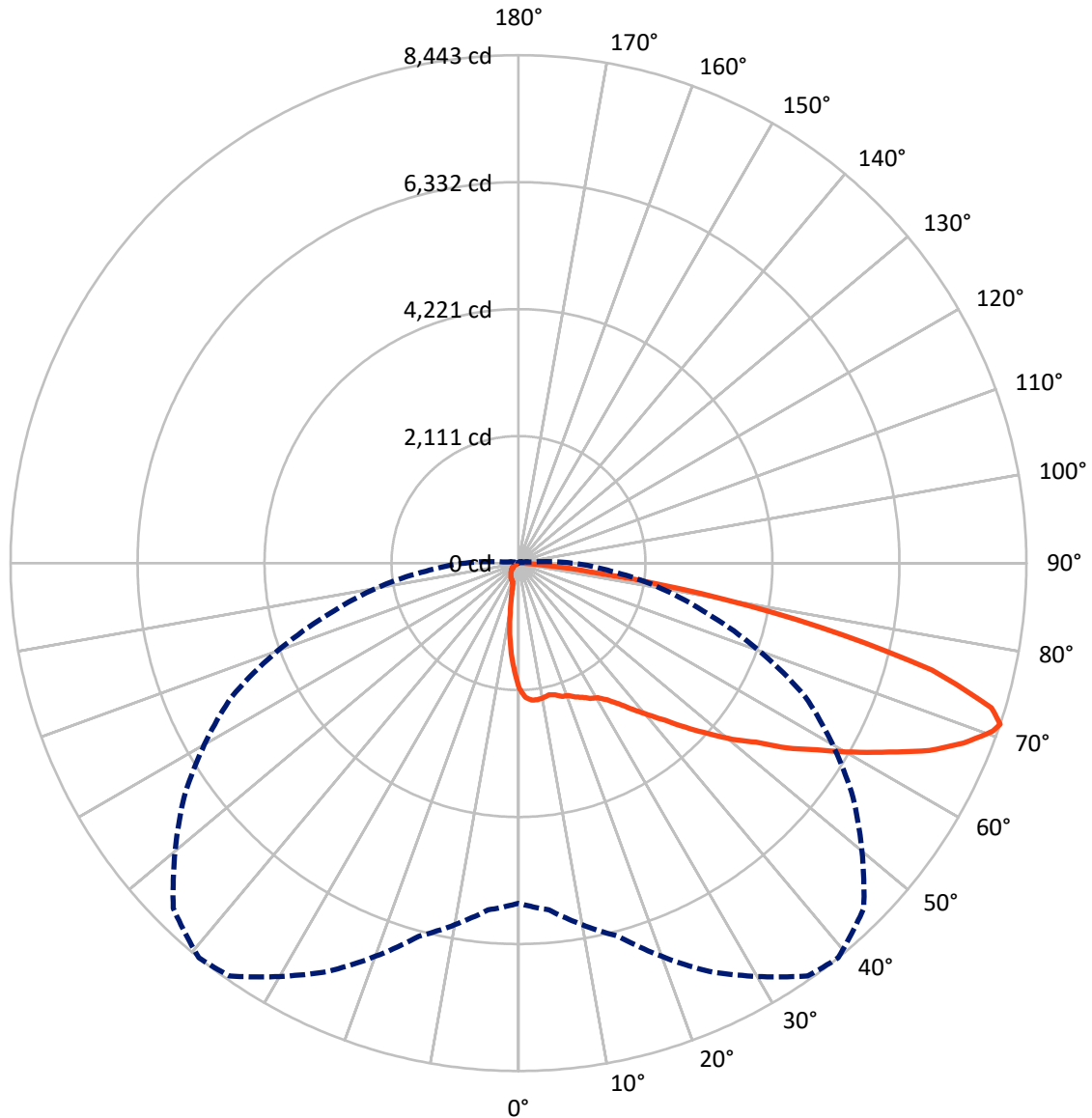
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P484822
CATALOG NUMBER: IFLD-S-SA2C-750-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.2	0.0	904.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11106.6	0.0	11106.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	12010.8	0.0	12010.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.5
10°-20°	430.2	3.6
20°-30°	690.6	5.7
30°-40°	1057.2	8.8
40°-50°	1697.0	14.1
50°-60°	2492.6	20.8
60°-70°	3139.3	26.1
70°-80°	2095.1	17.4
80°-90°	234.1	1.9
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°	12010.8	100.0
0°-180°	12010.8	100.0

Coefficient of Utilization



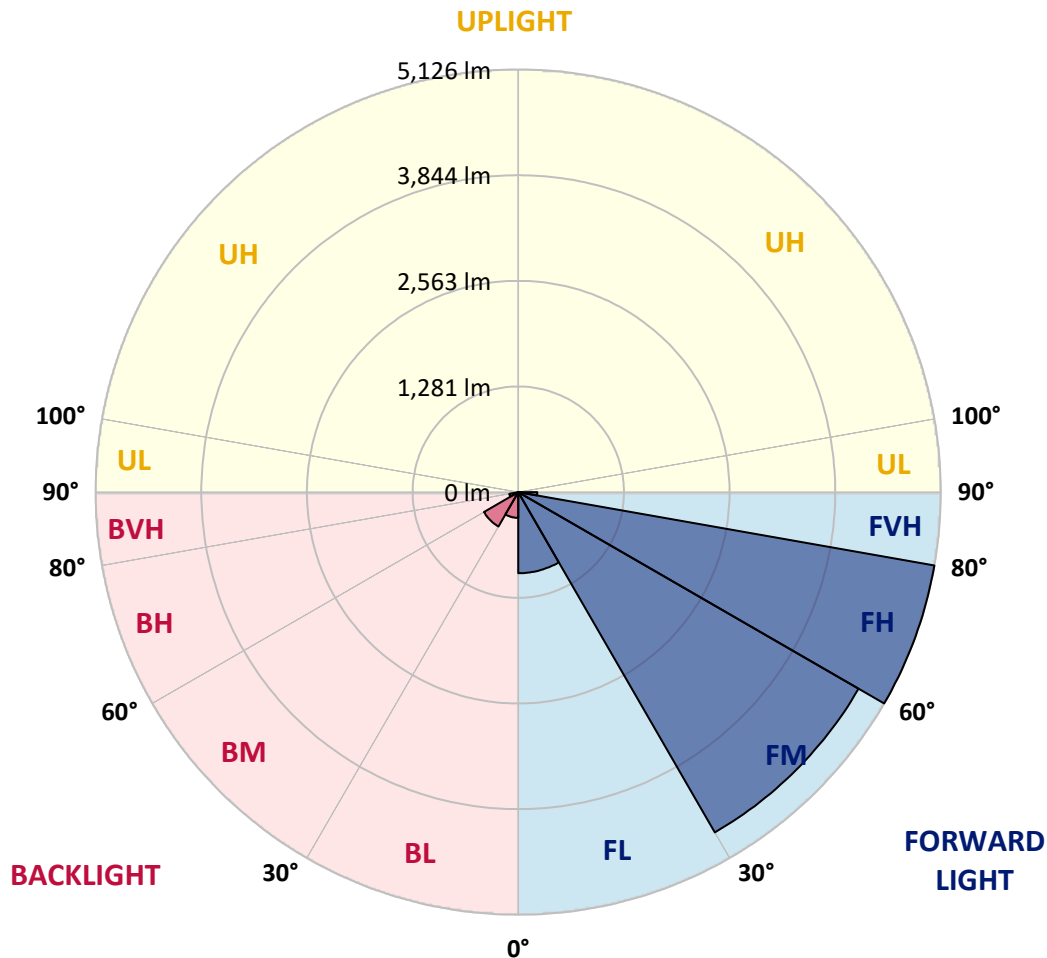
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.4	8.2			
FM (30°-60°)	4766.1	39.7			
FH (60°-80°)	5125.5	42.7			G3/7500
FVH (80°-90°)	231.6	1.9			G3/500
BL (0°-30°)	312.2	2.6	B1/500		
BM (30°-60°)	480.6	4.0	B1/1000		
BH (60°-80°)	108.8	0.9	B0/110		G0/110
BVH (80°-90°)	2.6	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°	39°	45°	55°	65°	75°	85°
0°	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6
2.5°	2252.8	2274.9	2252.8	2243.4	2233.9	2235.5	2210.3	2215.0	2185.1	2145.7	2114.2
5°	2323.7	2353.7	2330.0	2319.0	2317.4	2287.5	2274.9	2245.0	2208.7	2147.3	2109.5
7.5°	2317.4	2311.1	2322.1	2312.7	2292.2	2292.2	2278.0	2235.5	2199.3	2129.9	2065.4
10°	2270.2	2289.1	2279.6	2268.6	2273.3	2274.9	2248.1	2218.2	2207.1	2137.8	2032.3
12.5°	2265.4	2233.9	2268.6	2270.2	2249.7	2248.1	2245.0	2237.1	2202.4	2139.4	2040.1
15°	2249.7	2237.1	2271.7	2273.3	2278.0	2273.3	2278.0	2271.7	2237.1	2200.8	2074.8
17.5°	2262.3	2248.1	2296.9	2320.6	2309.5	2331.6	2323.7	2295.4	2265.4	2222.9	2107.9
20°	2265.4	2285.9	2339.5	2348.9	2383.6	2347.4	2345.8	2315.8	2296.9	2251.3	2128.4
22.5°	2323.7	2333.2	2399.3	2419.8	2421.4	2416.7	2377.3	2342.6	2334.7	2278.0	2133.1
25°	2411.9	2445.0	2475.0	2487.6	2492.3	2470.2	2429.3	2385.2	2366.3	2330.0	2181.9
27.5°	2567.9	2547.4	2574.2	2593.1	2539.6	2547.4	2495.4	2457.6	2430.8	2399.3	2238.6
30°	2706.5	2687.6	2689.2	2686.1	2640.4	2597.8	2583.7	2517.5	2484.4	2497.0	2326.9
32.5°	2831.0	2790.0	2824.7	2808.9	2723.9	2711.3	2700.2	2616.7	2623.0	2681.3	2459.2
35°	2946.0	2931.8	2960.2	2931.8	2875.1	2872.0	2860.9	2788.5	2823.1	2906.6	2686.1
37.5°	3051.6	3056.3	3090.9	3076.8	3081.5	3084.6	3078.3	3001.1	3100.4	3287.9	2950.7
40°	3149.2	3142.9	3228.0	3272.1	3281.6	3316.2	3316.2	3297.3	3450.1	3661.2	3317.8
42.5°	3253.2	3269.0	3379.2	3453.3	3543.1	3573.0	3614.0	3623.4	3859.7	4100.8	3692.7
45°	3423.4	3396.6	3536.8	3711.7	3790.4	3896.0	3959.0	4012.6	4297.7	4628.5	4067.7
47.5°	3639.2	3585.6	3708.5	3962.1	4144.9	4231.5	4345.0	4415.9	4694.7	5036.6	4422.2
50°	3878.6	3823.5	3883.4	4233.1	4445.8	4603.3	4748.3	4838.1	5175.2	5493.4	4680.5
52.5°	4149.6	4099.2	4108.7	4515.1	4828.6	4943.6	5134.2	5268.2	5603.7	5769.1	4771.9
55°	4437.9	4425.3	4395.4	4790.8	5164.2	5422.5	5537.5	5698.2	6043.3	5918.8	4871.1
57.5°	4727.8	4688.4	4730.9	5156.3	5703.0	5857.4	6016.5	6112.6	6287.4	6049.6	4833.3
60°	5000.3	5003.5	5063.3	5553.3	6161.4	6380.4	6523.7	6465.5	6537.9	6106.3	4746.7
62.5°	5230.3	5224.0	5375.3	5999.1	6767.9	6916.0	7023.2	6763.2	6654.5	6161.4	4595.5
65°	5436.7	5507.6	5745.5	6530.1	7338.2	7508.4	7443.8	7045.2	6767.9	5999.1	4170.1
67.5°	5592.7	5698.2	6111.0	7029.5	7861.3	7981.0	7891.2	7259.5	6634.0	5362.7	3396.6
70°	5684.1	5791.2	6372.5	7445.4	8278.7	8365.4	8154.3	7094.0	5852.6	3883.4	2118.9
71°	5655.7	5786.5	6422.9	7489.5	8378.0	8442.6	8114.9	6788.4	5263.4	3251.6	1545.5
72.5°	5398.9	5521.8	6213.4	7458.0	8258.3	8218.9	7807.7	6054.3	4143.3	2073.2	798.7
75°	3966.9	4099.2	5332.7	6451.3	7371.3	7100.3	6318.9	4248.9	2161.5	634.9	233.2
77.5°	1975.6	1997.6	3309.9	4683.7	5406.8	5137.4	4234.7	2369.4	808.2	187.5	116.6
80°	910.6	916.9	1241.4	2426.1	3269.0	3076.8	2372.6	1168.9	365.5	99.3	91.4
82.5°	620.7	630.2	748.3	1005.1	1419.4	1197.3	961.0	748.3	209.5	59.9	89.8
85°	113.4	104.0	419.1	532.5	548.2	371.8	332.4	647.5	78.8	34.7	78.8
87.5°	0.0	1.6	58.3	217.4	195.4	86.6	113.4	157.5	7.9	11.0	14.2
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°	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6	2090.6
2.5°	2087.4	2070.1	2011.8	1947.2	1888.9	1843.2	1784.9	1758.2	1715.6	1692.0	1690.4
5°	2057.5	2010.2	1909.4	1800.7	1679.4	1578.6	1466.7	1403.7	1331.2	1309.2	1304.4
7.5°	2007.1	1939.3	1791.2	1638.4	1452.5	1274.5	1137.4	990.9	901.1	863.3	849.1
10°	1975.6	1893.6	1692.0	1463.6	1203.6	953.1	760.9	605.0	523.0	483.6	474.2
12.5°	1975.6	1887.3	1611.6	1296.6	951.5	652.2	471.0	381.2	354.5	345.0	345.0
15°	1970.8	1874.7	1534.4	1124.8	704.2	438.0	351.3	332.4	329.3	327.7	326.1
17.5°	1994.5	1852.7	1455.7	940.5	497.8	345.0	323.0	319.8	316.7	316.7	313.5
20°	2011.8	1840.1	1361.1	745.2	371.8	319.8	310.4	305.6	304.1	302.5	305.6
22.5°	1997.6	1821.2	1244.6	557.7	324.5	304.1	297.8	293.0	289.9	289.9	291.4
25°	2024.4	1803.8	1128.0	420.6	304.1	289.9	283.6	280.4	278.8	277.3	274.1
27.5°	2060.6	1811.7	989.4	338.7	286.7	275.7	269.4	266.2	264.7	261.5	264.7
30°	2104.7	1810.1	836.5	296.2	271.0	259.9	253.6	252.1	248.9	247.3	248.9
32.5°	2180.4	1851.1	679.0	274.1	253.6	244.2	237.9	236.3	234.7	233.2	231.6
35°	2342.6	1901.5	530.9	256.8	237.9	226.9	222.1	219.0	217.4	215.8	214.3
37.5°	2542.7	2013.4	404.9	241.0	222.1	211.1	206.4	204.8	198.5	196.9	195.4
40°	2793.2	2133.1	311.9	223.7	208.0	196.9	192.2	187.5	179.6	176.4	173.3
42.5°	3105.1	2249.7	256.8	208.0	192.2	184.3	176.4	168.6	162.3	156.0	152.8
45°	3417.1	2385.2	225.3	193.8	179.6	170.1	163.8	152.8	141.8	132.3	130.8
47.5°	3677.0	2434.0	206.4	178.0	167.0	159.1	149.7	135.5	119.7	110.3	108.7
50°	3870.8	2405.6	187.5	162.3	152.8	144.9	132.3	115.0	99.3	89.8	86.6
52.5°	3908.6	2281.2	170.1	149.7	138.6	129.2	115.0	96.1	78.8	69.3	67.7
55°	3881.8	2074.8	156.0	138.6	126.0	111.9	96.1	77.2	61.4	52.0	50.4
57.5°	3826.7	1830.6	140.2	124.5	110.3	96.1	78.8	63.0	45.7	36.2	36.2
60°	3639.2	1498.2	124.5	108.7	94.5	81.9	64.6	45.7	31.5	23.6	22.1
62.5°	3377.7	1151.6	108.7	92.9	81.9	67.7	50.4	33.1	18.9	12.6	12.6
65°	2900.3	806.6	91.4	77.2	67.7	55.1	37.8	20.5	11.0	4.7	4.7
67.5°	2204.0	499.4	75.6	64.6	58.3	44.1	26.8	12.6	4.7	1.6	0.0
70°	1265.0	259.9	59.9	52.0	45.7	33.1	18.9	6.3	3.2	0.0	0.0
71°	883.8	192.2	53.6	45.7	41.0	29.9	15.8	4.7	1.6	0.0	0.0
72.5°	442.7	127.6	45.7	37.8	33.1	23.6	12.6	4.7	1.6	0.0	0.0
75°	157.5	81.9	31.5	25.2	23.6	17.3	7.9	3.2	1.6	0.0	0.0
77.5°	108.7	66.2	22.1	15.8	15.8	11.0	4.7	1.6	1.6	0.0	0.0
80°	99.3	36.2	14.2	9.5	7.9	6.3	3.2	1.6	0.0	0.0	0.0
82.5°	99.3	26.8	7.9	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0
85°	69.3	14.2	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.7	3.2	1.6	1.6	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)