

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: P484784

Luminaire Tested: **IFLD-S-SA2D-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

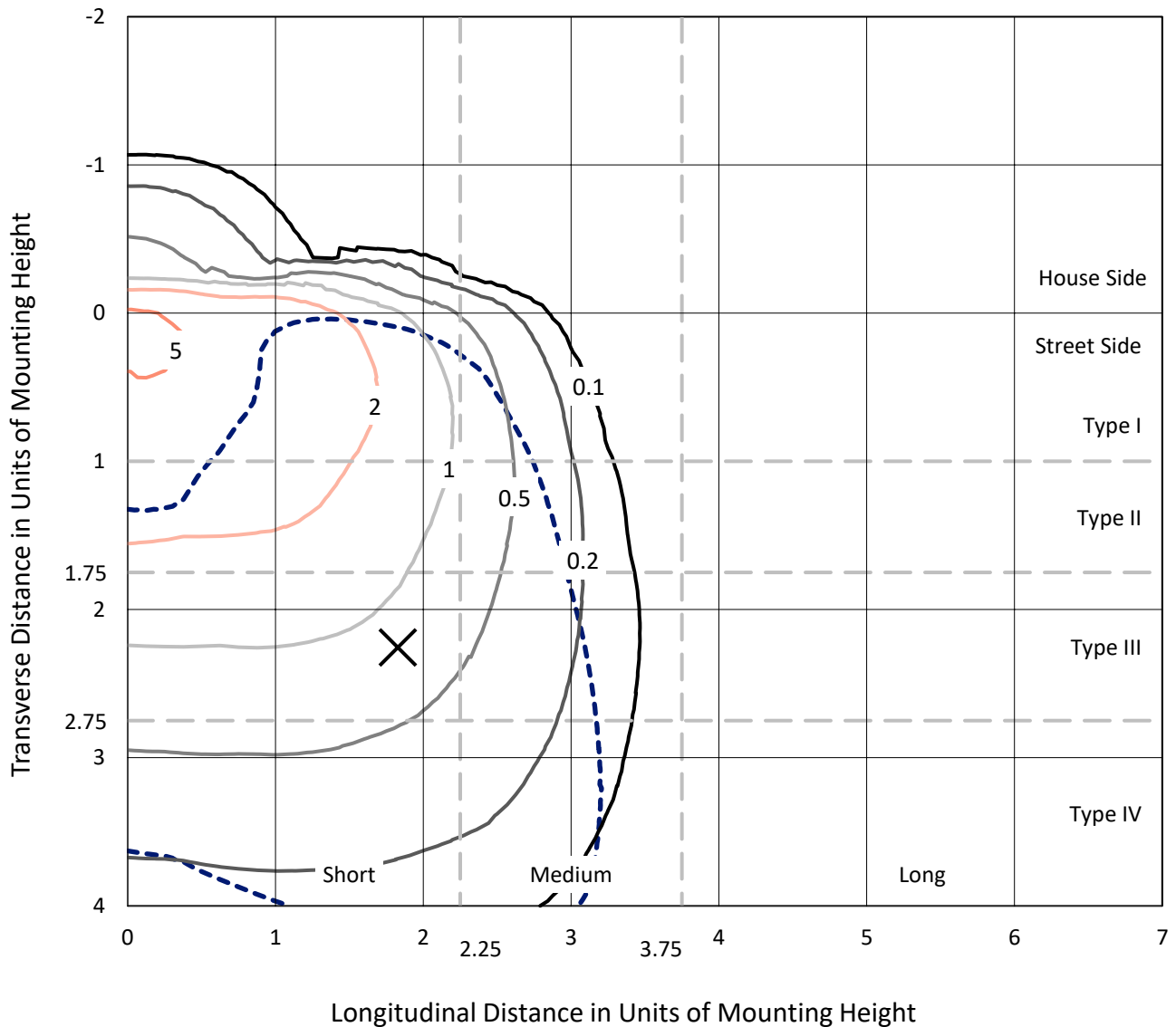
Lumens per Lamp: N/A
Luminaire Lumens: 12920.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9
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

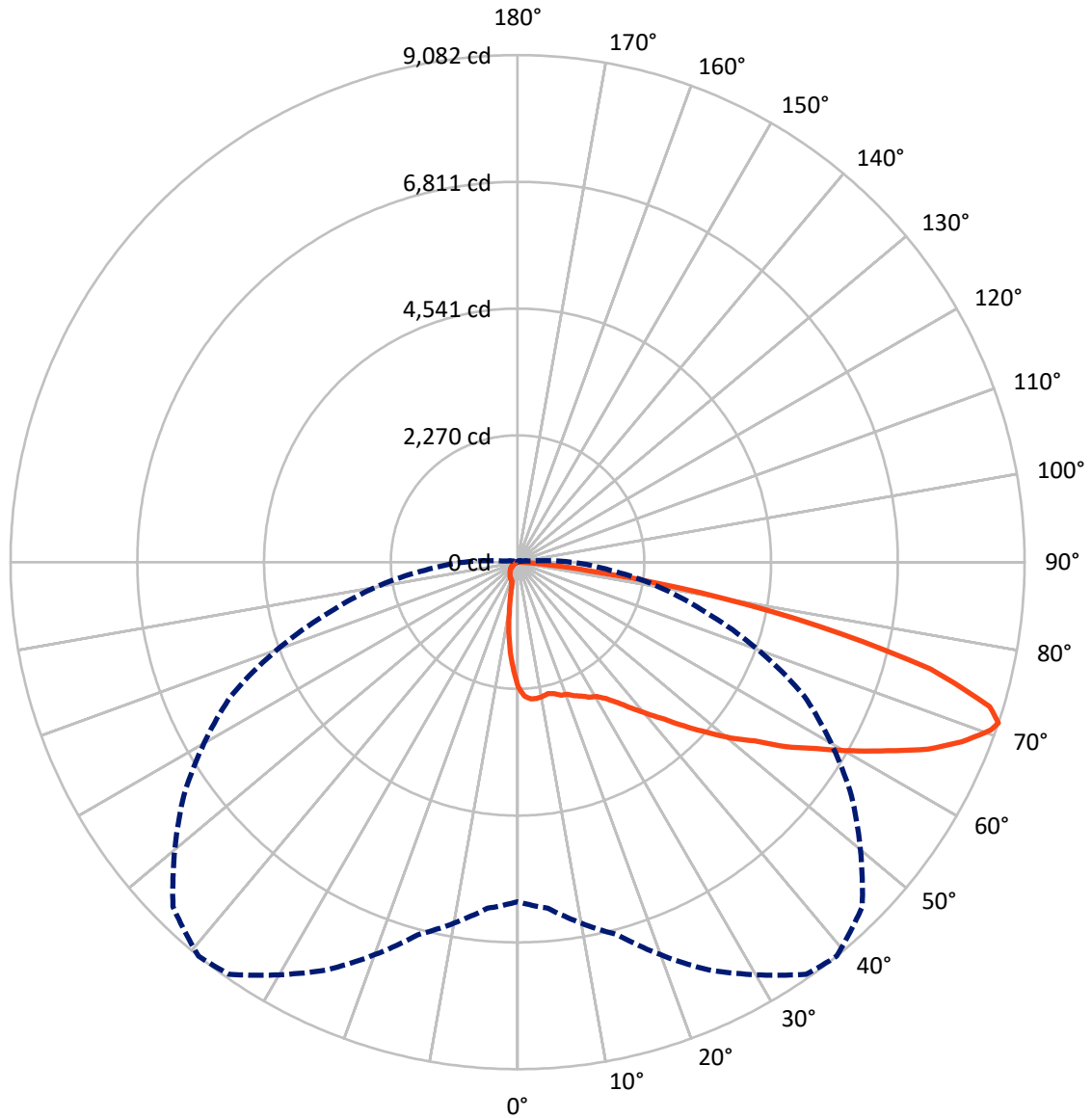
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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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	972.7	0.0	972.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11947.4	0.0	11947.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	12920.1	0.0	12920.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	1.5
10°-20°	462.8	3.6
20°-30°	742.9	5.8
30°-40°	1137.2	8.8
40°-50°	1825.4	14.1
50°-60°	2681.3	20.8
60°-70°	3376.9	26.1
70°-80°	2253.7	17.4
80°-90°	251.9	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°	12920.1	100.0
0°-180°	12920.1	100.0

Coefficient of Utilization



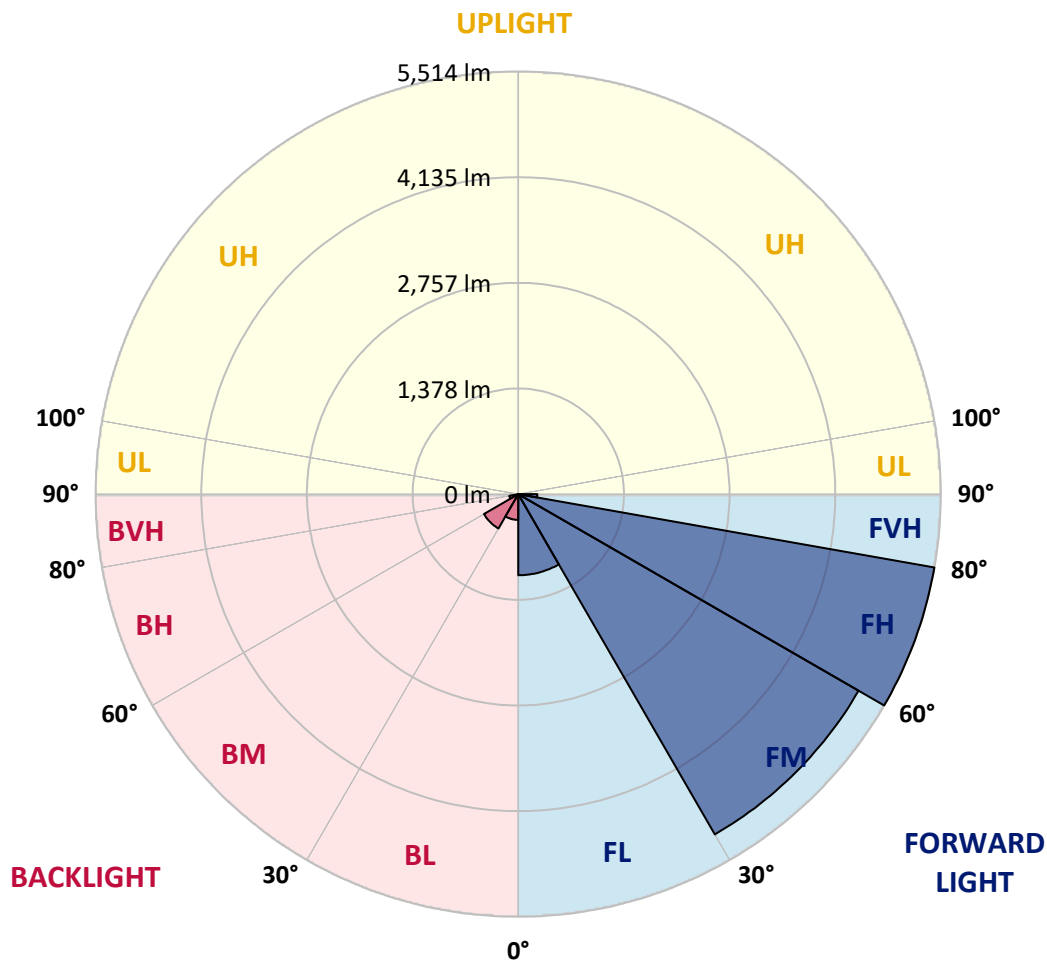
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.9	8.2			
FM (30°-60°)	5126.9	39.7			
FH (60°-80°)	5513.6	42.7			G3/7500
FVH (80°-90°)	249.1	1.9			G3/500
BL (0°-30°)	335.8	2.6	B1/500		
BM (30°-60°)	517.0	4.0	B1/1000		
BH (60°-80°)	117.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8
2.5°	2423.4	2447.1	2423.4	2413.2	2403.0	2404.7	2377.6	2382.7	2350.5	2308.1	2274.2
5°	2499.6	2531.8	2506.4	2494.5	2492.9	2460.7	2447.1	2414.9	2375.9	2309.8	2269.2
7.5°	2492.9	2486.1	2497.9	2487.8	2465.7	2465.7	2450.5	2404.7	2365.8	2291.2	2221.7
10°	2442.0	2462.4	2452.2	2440.3	2445.4	2447.1	2418.3	2386.1	2374.2	2299.7	2186.1
12.5°	2436.9	2403.0	2440.3	2442.0	2420.0	2418.3	2414.9	2406.4	2369.1	2301.4	2194.6
15°	2420.0	2406.4	2443.7	2445.4	2450.5	2445.4	2450.5	2443.7	2406.4	2367.4	2231.9
17.5°	2433.5	2418.3	2470.8	2496.2	2484.4	2508.1	2499.6	2469.1	2436.9	2391.2	2267.5
20°	2436.9	2459.0	2516.6	2526.7	2564.0	2525.1	2523.4	2491.2	2470.8	2421.7	2289.5
22.5°	2499.6	2509.8	2581.0	2603.0	2604.7	2599.6	2557.3	2520.0	2511.5	2450.5	2294.6
25°	2594.5	2630.1	2662.3	2675.9	2681.0	2657.2	2613.2	2565.7	2545.4	2506.4	2347.1
27.5°	2762.3	2740.3	2769.1	2789.4	2731.8	2740.3	2684.4	2643.7	2614.9	2581.0	2408.1
30°	2911.4	2891.1	2892.8	2889.4	2840.3	2794.5	2779.3	2708.1	2672.5	2686.0	2503.0
32.5°	3045.3	3001.3	3038.5	3021.6	2930.1	2916.5	2904.7	2814.8	2821.6	2884.3	2645.4
35°	3169.0	3153.8	3184.3	3153.8	3092.8	3089.4	3077.5	2999.6	3036.8	3126.7	2889.4
37.5°	3282.6	3287.7	3324.9	3309.7	3314.8	3318.2	3311.4	3228.3	3335.1	3536.8	3174.1
40°	3387.6	3380.9	3472.4	3519.8	3530.0	3567.3	3567.3	3546.9	3711.3	3938.4	3569.0
42.5°	3499.5	3516.4	3635.1	3714.7	3811.3	3843.5	3887.6	3897.7	4151.9	4411.2	3972.3
45°	3682.5	3653.7	3804.5	3992.6	4077.4	4190.9	4258.7	4316.3	4623.1	4978.9	4375.6
47.5°	3914.7	3857.1	3989.2	4262.1	4458.7	4551.9	4673.9	4750.2	5050.1	5417.9	4756.9
50°	4172.3	4113.0	4177.4	4553.6	4782.4	4951.8	5107.7	5204.3	5567.0	5909.3	5034.9
52.5°	4463.8	4409.5	4419.7	4856.9	5194.2	5317.9	5522.9	5667.0	6027.9	6205.9	5133.1
55°	4773.9	4760.3	4728.1	5153.5	5555.1	5833.0	5956.8	6129.6	6500.7	6366.9	5239.9
57.5°	5085.7	5043.3	5089.1	5546.6	6134.7	6300.8	6471.9	6575.3	6763.4	6507.5	5199.2
60°	5378.9	5382.3	5446.7	5973.7	6627.8	6863.4	7017.6	6954.9	7032.9	6568.5	5106.0
62.5°	5626.3	5619.5	5782.2	6453.3	7280.3	7439.6	7554.8	7275.2	7158.3	6627.8	4943.3
65°	5848.3	5924.6	6180.5	7024.4	7893.8	8076.8	8007.3	7578.6	7280.3	6453.3	4485.8
67.5°	6016.1	6129.6	6573.6	7561.6	8456.4	8585.2	8488.6	7809.0	7136.2	5768.6	3653.7
70°	6114.4	6229.6	6854.9	8009.0	8905.5	8998.7	8771.6	7631.1	6295.7	4177.4	2279.3
71°	6083.9	6224.5	6909.2	8056.4	9012.2	9081.7	8729.2	7302.3	5661.9	3497.8	1662.5
72.5°	5807.6	5939.8	6683.8	8022.6	8883.4	8841.1	8398.8	6512.6	4457.0	2230.2	859.2
75°	4267.2	4409.5	5736.4	6939.7	7929.3	7637.9	6797.3	4570.5	2325.1	683.0	250.8
77.5°	2125.1	2148.8	3560.5	5038.2	5816.1	5526.3	4555.3	2548.8	869.4	201.7	125.4
80°	979.5	986.3	1335.4	2609.8	3516.4	3309.7	2552.2	1257.4	393.2	106.8	98.3
82.5°	667.7	677.9	805.0	1081.2	1526.9	1287.9	1033.7	805.0	225.4	64.4	96.6
85°	122.0	111.8	450.8	572.8	589.7	399.9	357.6	696.5	84.7	37.3	84.7
87.5°	0.0	1.7	62.7	233.9	210.1	93.2	122.0	169.5	8.5	11.9	15.3
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°	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8
2.5°	2245.4	2226.8	2164.1	2094.6	2031.9	1982.8	1920.1	1891.2	1845.5	1820.1	1818.4
5°	2213.2	2162.4	2053.9	1937.0	1806.5	1698.1	1577.7	1509.9	1432.0	1408.3	1403.2
7.5°	2159.0	2086.1	1926.8	1762.5	1562.5	1371.0	1223.5	1065.9	969.3	928.7	913.4
10°	2125.1	2037.0	1820.1	1574.3	1294.7	1025.3	818.5	650.8	562.6	520.3	510.1
12.5°	2125.1	2030.2	1733.6	1394.7	1023.6	701.6	506.7	410.1	381.3	371.1	371.1
15°	2120.0	2016.7	1650.6	1210.0	757.5	471.1	377.9	357.6	354.2	352.5	350.8
17.5°	2145.4	1992.9	1565.9	1011.7	535.5	371.1	347.4	344.0	340.6	340.6	337.2
20°	2164.1	1979.4	1464.2	801.6	399.9	344.0	333.8	328.8	327.1	325.4	328.8
22.5°	2148.8	1959.0	1338.8	599.9	349.1	327.1	320.3	315.2	311.8	311.8	313.5
25°	2177.6	1940.4	1213.4	452.5	327.1	311.8	305.0	301.7	300.0	298.3	294.9
27.5°	2216.6	1948.9	1064.3	364.4	308.4	296.6	289.8	286.4	284.7	281.3	284.7
30°	2264.1	1947.2	899.9	318.6	291.5	279.6	272.8	271.1	267.8	266.1	267.8
32.5°	2345.4	1991.2	730.4	294.9	272.8	262.7	255.9	254.2	252.5	250.8	249.1
35°	2520.0	2045.5	571.1	276.2	255.9	244.0	238.9	235.6	233.9	232.2	230.5
37.5°	2735.2	2165.8	435.5	259.3	238.9	227.1	222.0	220.3	213.5	211.8	210.1
40°	3004.6	2294.6	335.5	240.6	223.7	211.8	206.7	201.7	193.2	189.8	186.4
42.5°	3340.2	2420.0	276.2	223.7	206.7	198.3	189.8	181.3	174.6	167.8	164.4
45°	3675.7	2565.7	242.3	208.4	193.2	183.0	176.2	164.4	152.5	142.4	140.7
47.5°	3955.4	2618.3	222.0	191.5	179.6	171.2	161.0	145.7	128.8	118.6	116.9
50°	4163.8	2587.8	201.7	174.6	164.4	155.9	142.4	123.7	106.8	96.6	93.2
52.5°	4204.5	2453.9	183.0	161.0	149.1	139.0	123.7	103.4	84.7	74.6	72.9
55°	4175.7	2231.9	167.8	149.1	135.6	120.3	103.4	83.0	66.1	55.9	54.2
57.5°	4116.3	1969.2	150.8	133.9	118.6	103.4	84.7	67.8	49.1	39.0	39.0
60°	3914.7	1611.6	133.9	116.9	101.7	88.1	69.5	49.1	33.9	25.4	23.7
62.5°	3633.4	1238.8	116.9	100.0	88.1	72.9	54.2	35.6	20.3	13.6	13.6
65°	3119.9	867.7	98.3	83.0	72.9	59.3	40.7	22.0	11.9	5.1	5.1
67.5°	2370.8	537.2	81.3	69.5	62.7	47.5	28.8	13.6	5.1	1.7	0.0
70°	1360.8	279.6	64.4	55.9	49.1	35.6	20.3	6.8	3.4	0.0	0.0
71°	950.7	206.7	57.6	49.1	44.1	32.2	16.9	5.1	1.7	0.0	0.0
72.5°	476.2	137.3	49.1	40.7	35.6	25.4	13.6	5.1	1.7	0.0	0.0
75°	169.5	88.1	33.9	27.1	25.4	18.6	8.5	3.4	1.7	0.0	0.0
77.5°	116.9	71.2	23.7	16.9	16.9	11.9	5.1	1.7	1.7	0.0	0.0
80°	106.8	39.0	15.3	10.2	8.5	6.8	3.4	1.7	0.0	0.0	0.0
82.5°	106.8	28.8	8.5	6.8	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	74.6	15.3	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	5.1	3.4	1.7	1.7	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)