

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: P483164

Luminaire Tested: **IFLD-S-SA6B-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483164
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

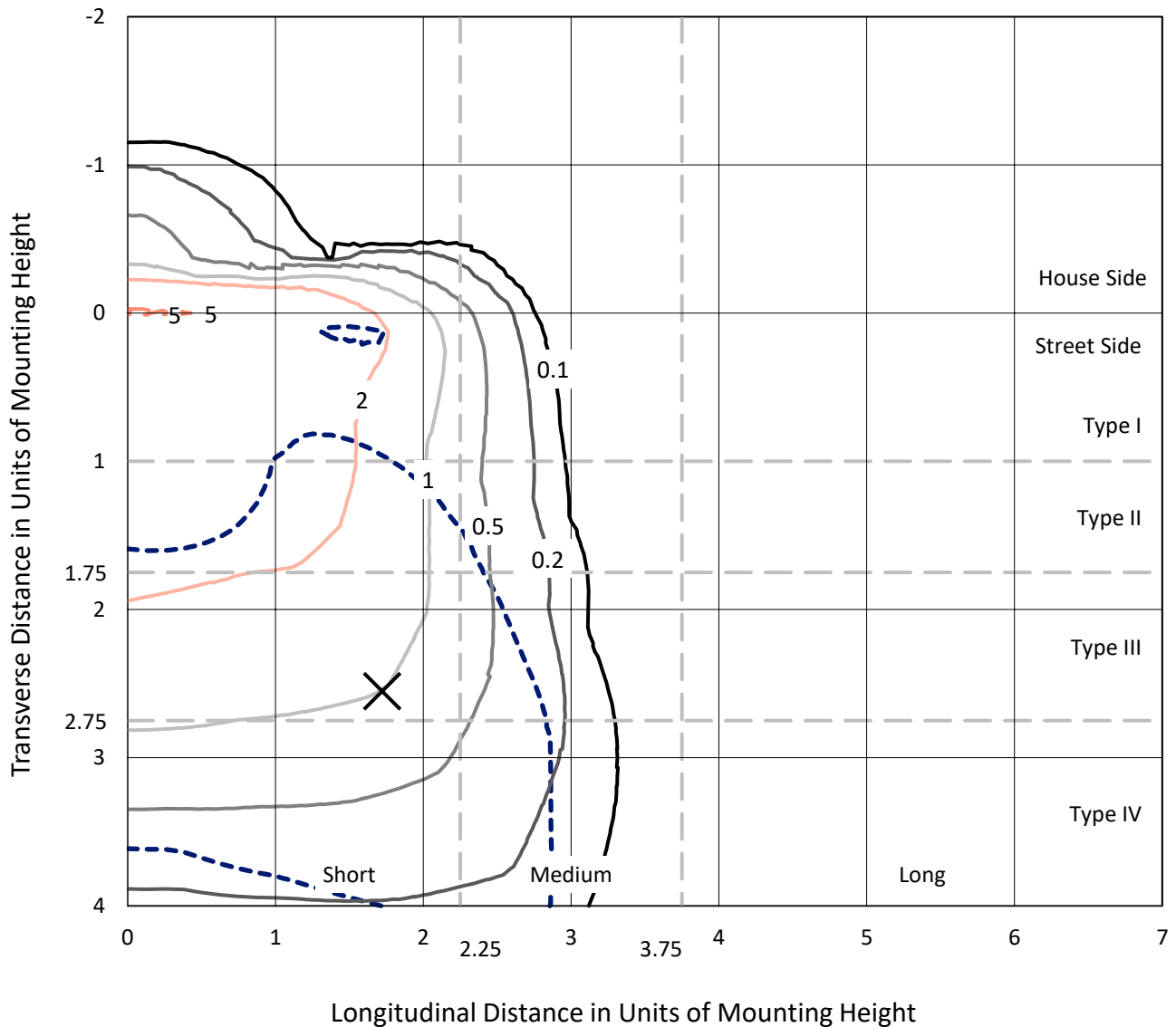
Lumens per Lamp: N/A
Luminaire Lumens: 21978.6 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

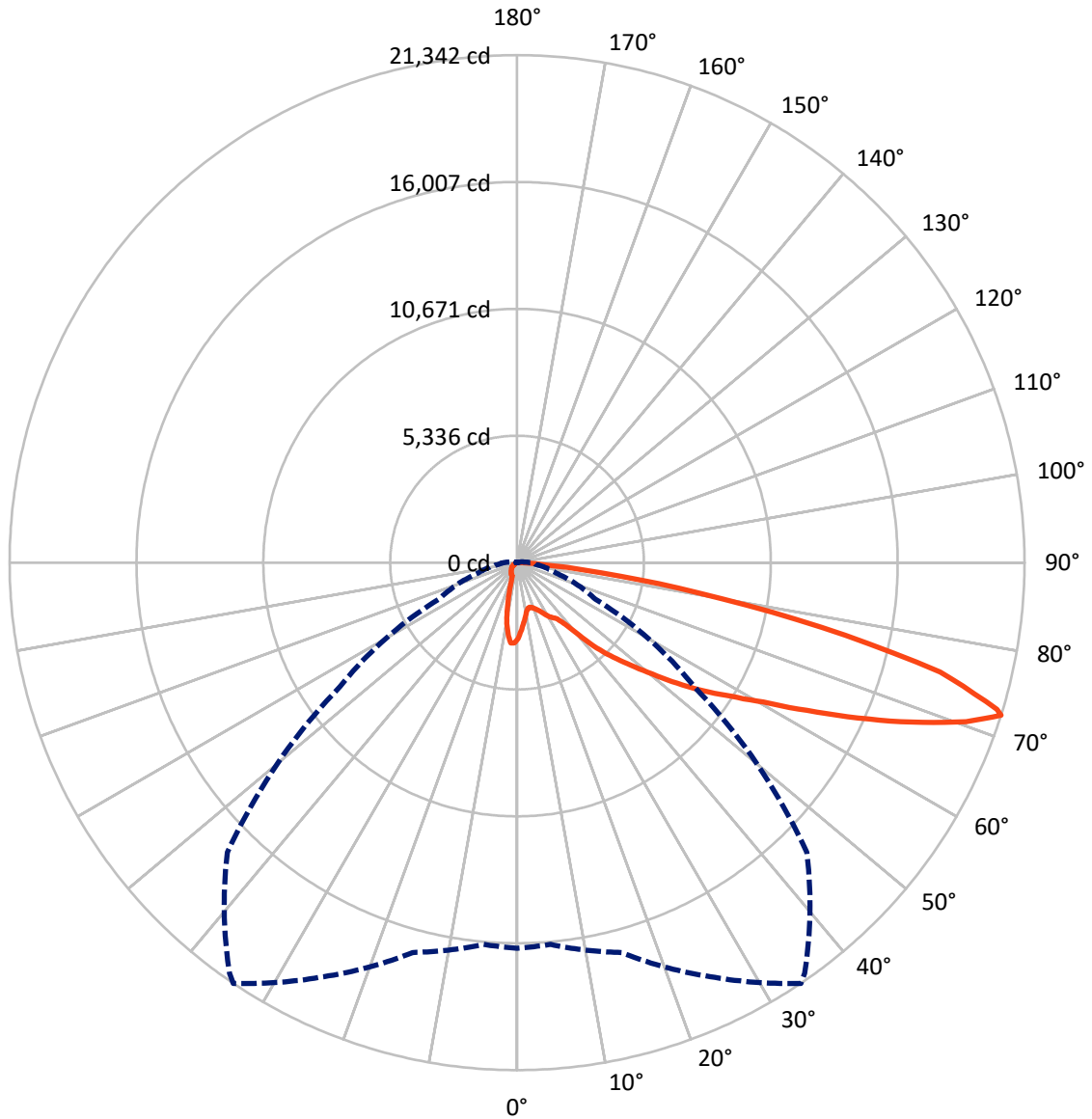
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2250.1	0.0	2250.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	19728.5	0.0	19728.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	21978.6	0.0	21978.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	1.3
10°-20°	632.0	2.9
20°-30°	953.9	4.3
30°-40°	1547.9	7.0
40°-50°	2910.8	13.2
50°-60°	4759.2	21.7
60°-70°	6326.7	28.8
70°-80°	4237.0	19.3
80°-90°	332.0	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°	21978.6	100.0
0°-180°	21978.6	100.0



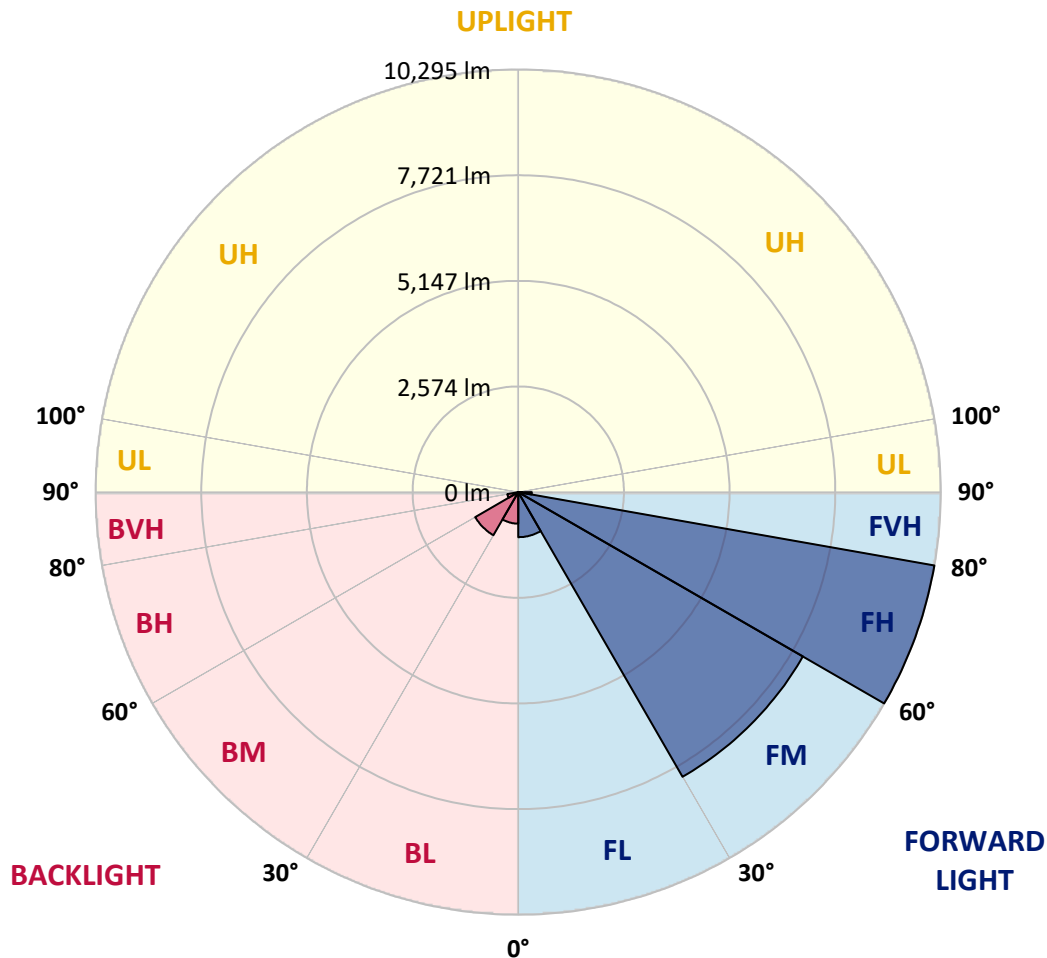
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.2	5.0			
FM (30°-60°)	8006.8	36.4			
FH (60°-80°)	10294.6	46.8			G4/12000
FVH (80°-90°)	329.9	1.5			G3/500
BL (0°-30°)	767.7	3.5	B2/1000		
BM (30°-60°)	1211.2	5.5	B2/2500		
BH (60°-80°)	269.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5
2.5°	2843.7	2837.4	2856.4	2888.2	2920.0	2907.3	2967.7	3031.2	3075.7	3136.1	3209.1
5°	2484.7	2500.6	2519.6	2583.2	2624.5	2634.0	2745.2	2827.9	2964.5	3104.3	3234.6
7.5°	2157.4	2176.5	2214.6	2284.5	2370.3	2392.6	2503.8	2669.0	2846.9	3031.2	3244.1
10°	1919.1	1938.2	1979.5	2024.0	2138.4	2138.4	2290.9	2519.6	2751.6	2967.7	3247.3
12.5°	1868.3	1877.8	1874.6	1909.6	1982.7	1998.6	2147.9	2398.9	2669.0	2945.4	3298.1
15°	1928.7	1935.0	1903.2	1884.2	1947.7	1963.6	2103.4	2325.8	2615.0	2958.1	3380.7
17.5°	2049.4	2027.2	1963.6	1935.0	1989.0	1998.6	2128.8	2322.7	2608.6	2993.1	3476.0
20°	2119.3	2144.7	2033.5	1979.5	2055.8	2068.5	2208.3	2373.5	2640.4	3053.4	3609.5
22.5°	2243.2	2255.9	2106.6	2071.6	2144.7	2144.7	2303.6	2475.2	2716.6	3151.9	3768.4
25°	2418.0	2402.1	2227.3	2192.4	2262.3	2290.9	2449.7	2637.2	2834.2	3244.1	3914.5
27.5°	2554.6	2564.1	2421.2	2329.0	2446.6	2465.6	2637.2	2812.0	2923.2	3320.3	4092.4
30°	2758.0	2738.9	2586.4	2481.5	2627.7	2630.9	2796.1	2977.2	3094.8	3457.0	4359.3
32.5°	2999.4	2961.3	2786.5	2637.2	2754.8	2783.4	2951.8	3215.5	3361.7	3714.3	4772.4
35°	3511.0	3418.8	3132.9	2900.9	2910.5	2923.2	3183.7	3561.8	3730.2	4041.6	5325.3
37.5°	4257.7	4219.5	3895.4	3453.8	3285.4	3247.3	3539.6	4019.4	4229.1	4473.7	6043.3
40°	4998.0	4944.0	4642.1	4308.5	4003.5	3927.2	4073.4	4626.2	4816.9	5074.2	6780.5
42.5°	5820.9	5725.6	5369.7	5099.7	4909.0	4826.4	4769.2	5388.8	5604.9	5779.6	7501.8
45°	6653.4	6497.7	5983.0	5776.4	5674.8	5630.3	5623.9	6348.4	6478.6	6513.6	8302.4
47.5°	7384.2	7215.8	6748.7	6516.8	6440.5	6427.8	6783.7	7454.1	7352.4	7260.3	9195.3
50°	7946.6	7838.6	7501.8	7419.1	7362.0	7339.7	8172.2	8591.6	8121.3	7959.3	9980.1
52.5°	8817.2	8575.7	8194.4	8223.0	8423.2	8426.4	9579.7	9671.9	8760.0	8439.1	10720.4
55°	9513.0	9354.2	9042.8	9001.5	9528.9	9586.1	10841.2	10491.7	9115.9	8896.6	10993.7
57.5°	10332.8	10259.7	10034.1	10040.5	10593.3	10714.1	11962.8	11184.3	9411.3	9192.1	11035.0
60°	11517.9	11308.2	11190.7	11244.7	11896.0	12013.6	13049.4	11683.2	9554.3	9385.9	10933.3
62.5°	12827.0	12582.4	12455.3	12731.7	13681.7	13700.8	13875.5	12124.8	9465.4	9436.8	10278.8
65°	14403.0	14161.5	14059.8	14615.9	15743.8	15673.9	15035.3	12312.3	9182.6	8925.2	8559.8
67.5°	15972.6	15826.4	15616.7	16503.2	17907.6	17907.6	16239.5	12242.4	8442.3	7165.0	5598.5
70°	16716.1	16817.8	17151.4	18543.1	20033.3	19880.8	17427.8	11438.5	6284.8	3847.8	2201.9
72°	16220.4	16115.6	16976.7	19210.3	21342.3	21091.3	17227.7	9093.6	3631.7	1687.2	765.7
72.5°	15368.9	15467.4	16652.6	19118.2	21097.7	21304.2	16738.3	8388.2	2986.7	1344.0	578.3
75°	9424.1	9592.5	12429.8	16233.1	18384.2	18152.3	12947.8	3997.1	1147.0	571.9	206.5
77.5°	3441.1	3580.9	6030.6	10215.2	13074.8	12928.7	7492.2	1420.3	622.8	425.8	104.9
80°	896.0	969.1	2049.4	4712.0	7689.2	7698.8	3136.1	568.7	422.6	349.5	63.5
82.5°	177.9	197.0	629.1	1833.3	3593.6	3545.9	991.3	305.0	317.7	286.0	44.5
85°	22.2	28.6	133.4	622.8	1162.9	1042.2	244.7	152.5	235.1	222.4	28.6
87.5°	3.2	3.2	31.8	143.0	244.7	238.3	50.8	47.7	104.9	136.6	15.9
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°	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5	3215.5
2.5°	3250.4	3263.2	3307.6	3345.8	3390.2	3403.0	3383.9	3415.7	3371.2	3396.6	3403.0
5°	3256.8	3329.9	3412.5	3466.5	3453.8	3422.0	3396.6	3310.8	3250.4	3228.2	3275.9
7.5°	3301.3	3383.9	3472.9	3472.9	3403.0	3237.7	3078.9	2926.4	2799.3	2735.7	2789.7
10°	3358.5	3444.3	3536.4	3415.7	3155.1	2853.3	2627.7	2341.7	2147.9	2046.2	2055.8
12.5°	3434.7	3555.5	3587.2	3307.6	2875.5	2427.5	2017.6	1620.5	1436.2	1290.0	1293.2
15°	3533.2	3650.8	3555.5	3072.5	2519.6	1858.8	1366.3	988.2	842.0	765.7	765.7
17.5°	3663.5	3752.5	3545.9	2856.4	2039.9	1270.9	838.8	667.2	635.5	622.8	622.8
20°	3816.0	3882.7	3453.8	2519.6	1515.6	816.6	616.4	597.3	600.5	594.2	594.2
22.5°	3987.6	4009.8	3348.9	2128.8	1026.3	603.7	575.1	578.3	581.5	575.1	578.3
25°	4168.7	4108.3	3196.4	1671.3	683.1	549.7	556.0	562.4	565.6	568.7	568.7
27.5°	4372.1	4251.3	2983.5	1223.3	533.8	517.9	537.0	556.0	559.2	559.2	556.0
30°	4670.7	4470.5	2777.0	829.3	470.2	483.0	514.7	537.0	552.9	552.9	549.7
32.5°	5048.8	4699.3	2487.9	565.6	435.3	441.7	467.1	511.6	546.5	549.7	540.2
35°	5573.1	4975.8	2186.0	451.2	409.9	413.1	428.9	463.9	524.3	543.3	540.2
37.5°	6126.0	5290.3	1811.1	406.7	390.8	387.6	397.2	425.8	479.8	527.4	530.6
40°	6713.8	5620.8	1417.1	384.5	374.9	368.6	371.8	384.5	425.8	486.1	498.8
42.5°	7266.6	5919.4	1064.4	362.2	359.0	352.7	352.7	355.9	378.1	419.4	425.8
45°	7864.0	6164.1	810.2	346.3	336.8	340.0	327.3	320.9	336.8	340.0	336.8
47.5°	8423.2	6408.7	648.2	327.3	317.7	317.7	301.8	289.1	289.1	260.5	257.4
50°	8947.5	6542.2	517.9	301.8	298.7	295.5	273.3	251.0	231.9	197.0	190.6
52.5°	9382.8	6535.8	400.3	270.1	279.6	270.1	235.1	203.4	174.8	143.0	136.6
55°	9513.0	6230.8	301.8	222.4	238.3	225.6	187.5	158.9	127.1	101.7	98.5
57.5°	9401.8	5766.9	228.8	171.6	184.3	171.6	143.0	117.6	89.0	69.9	63.5
60°	9030.1	5223.6	177.9	133.4	139.8	130.3	108.0	89.0	63.5	44.5	38.1
62.5°	8324.7	4543.6	136.6	104.9	101.7	101.7	82.6	66.7	44.5	25.4	22.2
65°	6831.3	3542.8	104.9	73.1	73.1	73.1	63.5	47.7	28.6	12.7	6.4
67.5°	4289.4	2062.1	85.8	57.2	54.0	54.0	44.5	31.8	15.9	3.2	0.0
70°	1614.1	756.2	66.7	44.5	41.3	41.3	31.8	19.1	9.5	0.0	0.0
72°	556.0	289.1	54.0	31.8	31.8	28.6	22.2	15.9	6.4	0.0	0.0
72.5°	457.5	231.9	50.8	31.8	28.6	28.6	22.2	15.9	6.4	0.0	0.0
75°	165.2	95.3	35.0	22.2	19.1	19.1	15.9	9.5	3.2	0.0	0.0
77.5°	82.6	60.4	28.6	19.1	15.9	9.5	9.5	6.4	3.2	0.0	0.0
80°	50.8	38.1	15.9	12.7	9.5	6.4	3.2	3.2	0.0	0.0	0.0
82.5°	35.0	22.2	9.5	9.5	6.4	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.2	9.5	6.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	6.4	3.2	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)