

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: P483212

Luminaire Tested: **IFLD-L-SA7A-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483212
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

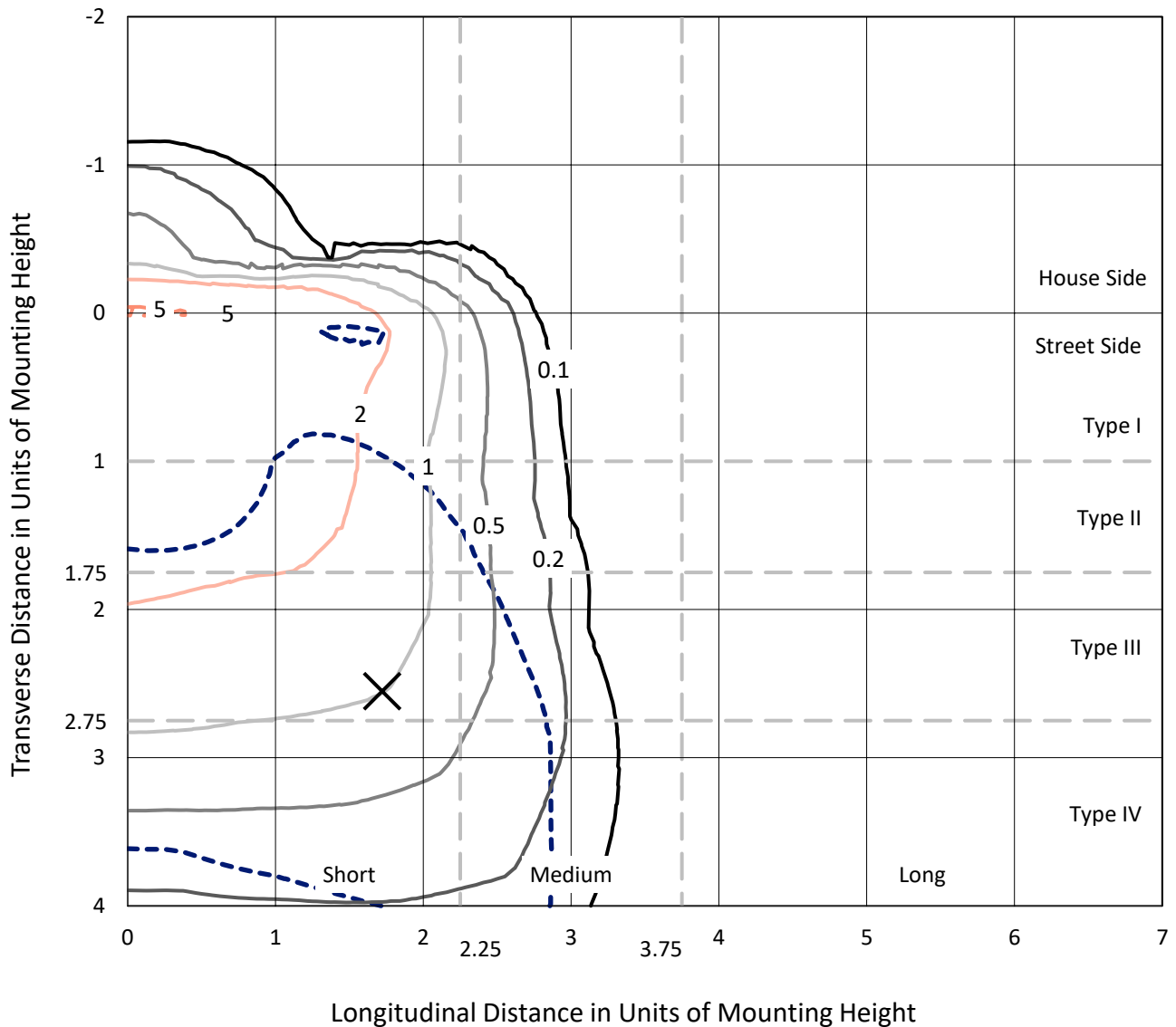
Lumens per Lamp: N/A
Luminaire Lumens: 22323 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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: P483212
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

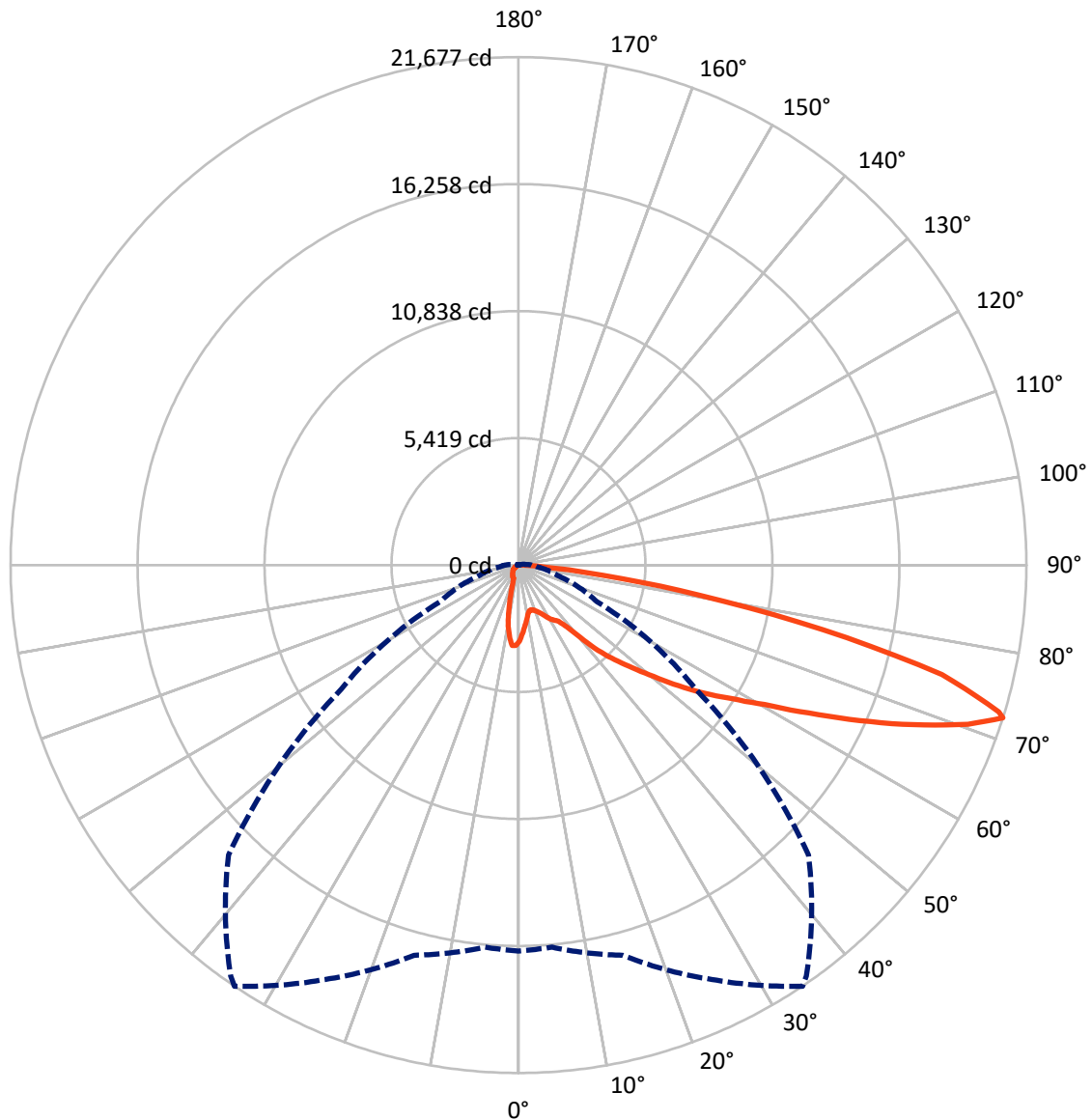
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P483212
CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483212
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2285.3	0.0	2285.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20037.6	0.0	20037.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	22323.0	0.0	22323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.3
10°-20°	641.9	2.9
20°-30°	968.8	4.3
30°-40°	1572.2	7.0
40°-50°	2956.4	13.2
50°-60°	4833.8	21.7
60°-70°	6425.8	28.8
70°-80°	4303.3	19.3
80°-90°	337.2	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°	22323.0	100.0
0°-180°	22323.0	100.0

Coefficient of Utilization



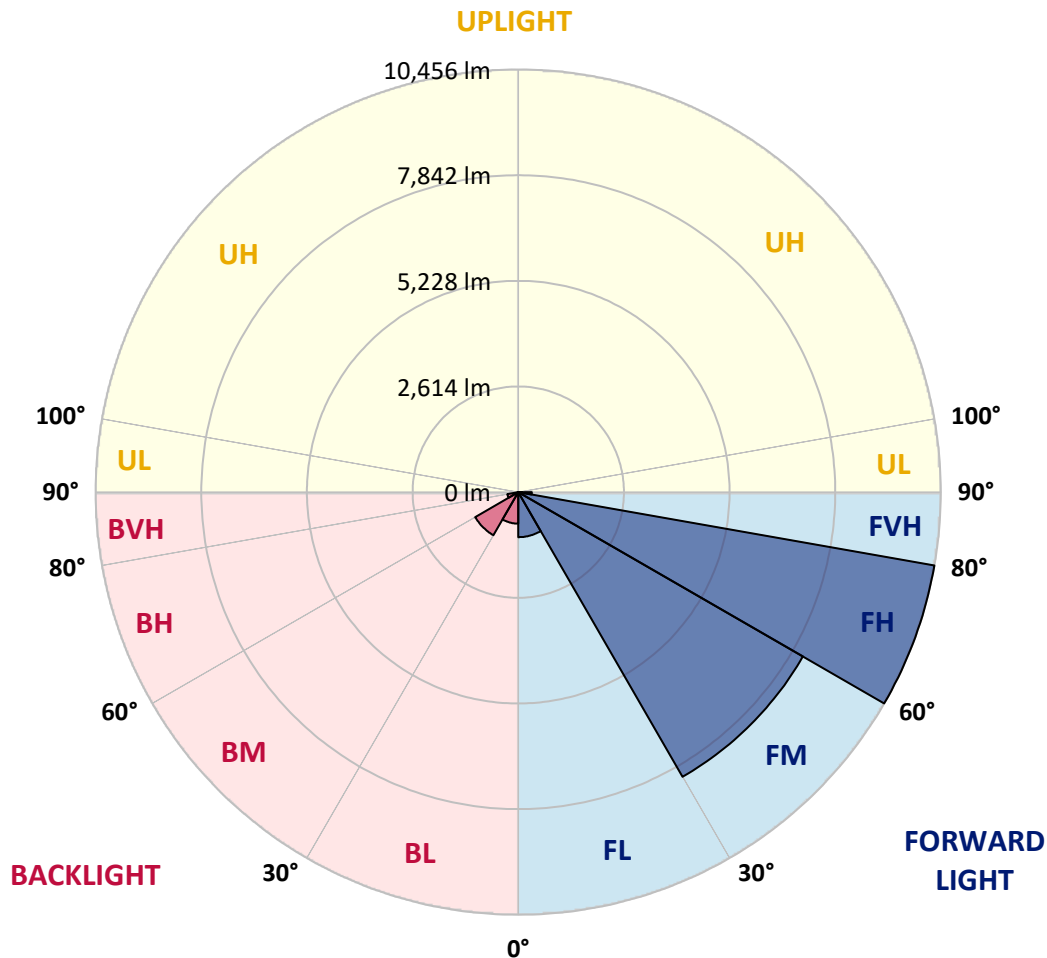
REPORT NUMBER: P483212
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.4	5.0			
FM (30°-60°)	8132.2	36.4			
FH (60°-80°)	10455.9	46.8			G4/12000
FVH (80°-90°)	335.1	1.5			G3/500
BL (0°-30°)	779.8	3.5	B2/1000		
BM (30°-60°)	1230.2	5.5	B2/2500		
BH (60°-80°)	273.3	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





REPORT NUMBER: P483212

CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9
2.5°	2888.3	2881.8	2901.2	2933.5	2965.7	2952.8	3014.1	3078.7	3123.9	3185.2	3259.4
5°	2523.6	2539.8	2559.1	2623.7	2665.6	2675.3	2788.2	2872.2	3010.9	3152.9	3285.2
7.5°	2191.2	2210.6	2249.3	2320.3	2407.4	2430.0	2543.0	2710.8	2891.5	3078.7	3294.9
10°	1949.2	1968.6	2010.5	2055.7	2171.9	2171.9	2326.8	2559.1	2794.7	3014.1	3298.1
12.5°	1897.6	1907.2	1904.0	1939.5	2013.7	2029.9	2181.5	2436.5	2710.8	2991.6	3349.8
15°	1958.9	1965.3	1933.1	1913.7	1978.2	1994.4	2136.4	2362.3	2655.9	3004.5	3433.7
17.5°	2081.5	2058.9	1994.4	1965.3	2020.2	2029.9	2162.2	2359.0	2649.5	3040.0	3530.5
20°	2152.5	2178.3	2065.4	2010.5	2088.0	2100.9	2242.9	2410.7	2681.8	3101.3	3666.0
22.5°	2278.4	2291.3	2139.6	2104.1	2178.3	2178.3	2339.7	2513.9	2759.2	3201.3	3827.4
25°	2455.9	2439.7	2262.2	2226.7	2297.7	2326.8	2488.1	2678.5	2878.6	3294.9	3975.8
27.5°	2594.6	2604.3	2459.1	2365.5	2484.9	2504.3	2678.5	2856.0	2969.0	3372.4	4156.6
30°	2801.2	2781.8	2626.9	2520.4	2668.8	2672.1	2839.9	3023.8	3143.2	3511.1	4427.6
32.5°	3046.4	3007.7	2830.2	2678.5	2797.9	2827.0	2998.0	3265.9	3414.3	3772.5	4847.2
35°	3566.0	3472.4	3182.0	2946.4	2956.1	2969.0	3233.6	3617.6	3788.7	4104.9	5408.7
37.5°	4324.4	4285.6	3956.5	3507.9	3336.9	3298.1	3595.0	4082.3	4295.3	4543.8	6138.0
40°	5076.3	5021.4	4714.9	4376.0	4066.2	3988.7	4137.2	4698.7	4892.3	5153.7	6886.7
42.5°	5912.1	5815.3	5453.9	5179.6	4985.9	4902.0	4843.9	5473.2	5692.7	5870.2	7619.3
45°	6757.6	6599.5	6076.7	5866.9	5763.7	5718.5	5712.0	6447.8	6580.1	6615.6	8432.5
47.5°	7499.9	7328.8	6854.4	6618.9	6541.4	6528.5	6889.9	7570.9	7467.6	7374.0	9339.3
50°	8071.1	7961.4	7619.3	7535.4	7477.3	7454.7	8300.2	8726.2	8248.6	8084.0	10136.4
52.5°	8955.3	8710.0	8322.8	8351.8	8555.1	8558.4	9729.8	9823.4	8897.2	8571.3	10888.4
55°	9662.1	9500.7	9184.4	9142.5	9678.2	9736.3	11011.0	10656.0	9258.7	9036.0	11165.9
57.5°	10494.7	10420.4	10191.3	10197.8	10759.3	10881.9	12150.2	11359.5	9558.8	9336.1	11207.9
60°	11698.4	11485.4	11366.0	11420.8	12082.4	12201.8	13253.9	11866.2	9704.0	9533.0	11104.6
62.5°	13028.0	12779.5	12650.4	12931.1	13896.1	13915.4	14092.9	12314.8	9613.6	9584.6	10439.8
65°	14628.6	14383.4	14280.1	14844.8	15990.5	15919.5	15270.8	12505.2	9326.4	9065.0	8693.9
67.5°	16222.8	16074.4	15861.4	16761.8	18188.2	18188.2	16493.9	12434.2	8574.5	7277.2	5686.2
70°	16978.0	17081.2	17420.1	18833.6	20347.1	20192.2	17700.9	11617.7	6383.3	3908.1	2236.4
72°	16474.5	16368.1	17242.6	19511.3	21676.7	21421.8	17497.5	9236.1	3688.6	1713.6	777.7
72.5°	15609.7	15709.7	16913.4	19417.7	21428.2	21638.0	17000.6	8519.6	3033.5	1365.1	587.3
75°	9571.7	9742.7	12624.6	16487.5	18672.2	18436.6	13150.6	4059.7	1165.0	580.9	209.8
77.5°	3495.0	3637.0	6125.1	10375.3	13279.7	13131.2	7609.6	1442.5	632.5	432.4	106.5
80°	910.1	984.3	2081.5	4785.8	7809.7	7819.4	3185.2	577.7	429.2	355.0	64.5
82.5°	180.7	200.1	639.0	1862.1	3649.9	3601.5	1006.9	309.8	322.7	290.4	45.2
85°	22.6	29.0	135.5	632.5	1181.1	1058.5	248.5	154.9	238.8	225.9	29.0
87.5°	3.2	3.2	32.3	145.2	248.5	242.0	51.6	48.4	106.5	138.8	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483212

CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9
2.5°	3301.4	3314.3	3359.5	3398.2	3443.4	3456.3	3436.9	3469.2	3424.0	3449.8	3456.3
5°	3307.8	3382.0	3465.9	3520.8	3507.9	3475.6	3449.8	3362.7	3301.4	3278.8	3327.2
7.5°	3353.0	3436.9	3527.3	3527.3	3456.3	3288.5	3127.1	2972.2	2843.1	2778.6	2833.4
10°	3411.1	3498.2	3591.8	3469.2	3204.5	2898.0	2668.8	2378.4	2181.5	2078.3	2088.0
12.5°	3488.5	3611.2	3643.4	3359.5	2920.6	2465.5	2049.2	1645.8	1458.7	1310.2	1313.4
15°	3588.6	3708.0	3611.2	3120.6	2559.1	1887.9	1387.7	1003.6	855.2	777.7	777.7
17.5°	3720.9	3811.3	3601.5	2901.2	2071.8	1290.9	852.0	677.7	645.4	632.5	632.5
20°	3875.8	3943.6	3507.9	2559.1	1539.3	829.4	626.1	606.7	609.9	603.5	603.5
22.5°	4050.1	4072.6	3401.4	2162.2	1042.4	613.2	584.1	587.3	590.6	584.1	587.3
25°	4234.0	4172.7	3246.5	1697.5	693.8	558.3	564.7	571.2	574.4	577.7	577.7
27.5°	4440.5	4317.9	3030.3	1242.4	542.2	526.0	545.4	564.7	568.0	568.0	564.7
30°	4743.9	4540.6	2820.5	842.3	477.6	490.5	522.8	545.4	561.5	561.5	558.3
32.5°	5127.9	4772.9	2526.8	574.4	442.1	448.6	474.4	519.6	555.1	558.3	548.6
35°	5660.4	5053.7	2220.3	458.3	416.3	419.5	435.7	471.2	532.5	551.8	548.6
37.5°	6221.9	5373.2	1839.5	413.1	396.9	393.7	403.4	432.4	487.3	535.7	538.9
40°	6818.9	5708.8	1439.3	390.5	380.8	374.3	377.6	390.5	432.4	493.8	506.7
42.5°	7380.5	6012.2	1081.1	367.9	364.7	358.2	358.2	361.4	384.0	426.0	432.4
45°	7987.2	6260.7	822.9	351.8	342.1	345.3	332.4	325.9	342.1	345.3	342.1
47.5°	8555.1	6509.1	658.3	332.4	322.7	322.7	306.6	293.7	293.7	264.6	261.4
50°	9087.6	6644.7	526.0	306.6	303.4	300.1	277.5	254.9	235.6	200.1	193.6
52.5°	9529.7	6638.2	406.6	274.3	284.0	274.3	238.8	206.5	177.5	145.2	138.8
55°	9662.1	6328.4	306.6	225.9	242.0	229.1	190.4	161.4	129.1	103.3	100.0
57.5°	9549.1	5857.3	232.4	174.3	187.2	174.3	145.2	119.4	90.4	71.0	64.5
60°	9171.5	5305.4	180.7	135.5	142.0	132.3	109.7	90.4	64.5	45.2	38.7
62.5°	8455.1	4614.8	138.8	106.5	103.3	103.3	83.9	67.8	45.2	25.8	22.6
65°	6938.3	3598.3	106.5	74.2	74.2	74.2	64.5	48.4	29.0	12.9	6.5
67.5°	4356.6	2094.4	87.1	58.1	54.9	54.9	45.2	32.3	16.1	3.2	0.0
70°	1639.4	768.1	67.8	45.2	42.0	42.0	32.3	19.4	9.7	0.0	0.0
72°	564.7	293.7	54.9	32.3	32.3	29.0	22.6	16.1	6.5	0.0	0.0
72.5°	464.7	235.6	51.6	32.3	29.0	29.0	22.6	16.1	6.5	0.0	0.0
75°	167.8	96.8	35.5	22.6	19.4	19.4	16.1	9.7	3.2	0.0	0.0
77.5°	83.9	61.3	29.0	19.4	16.1	9.7	9.7	6.5	3.2	0.0	0.0
80°	51.6	38.7	16.1	12.9	9.7	6.5	3.2	3.2	0.0	0.0	0.0
82.5°	35.5	22.6	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.6	9.7	6.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	6.5	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)