

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: P483360

Luminaire Tested: **IFLD-S-SA6C-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483360
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

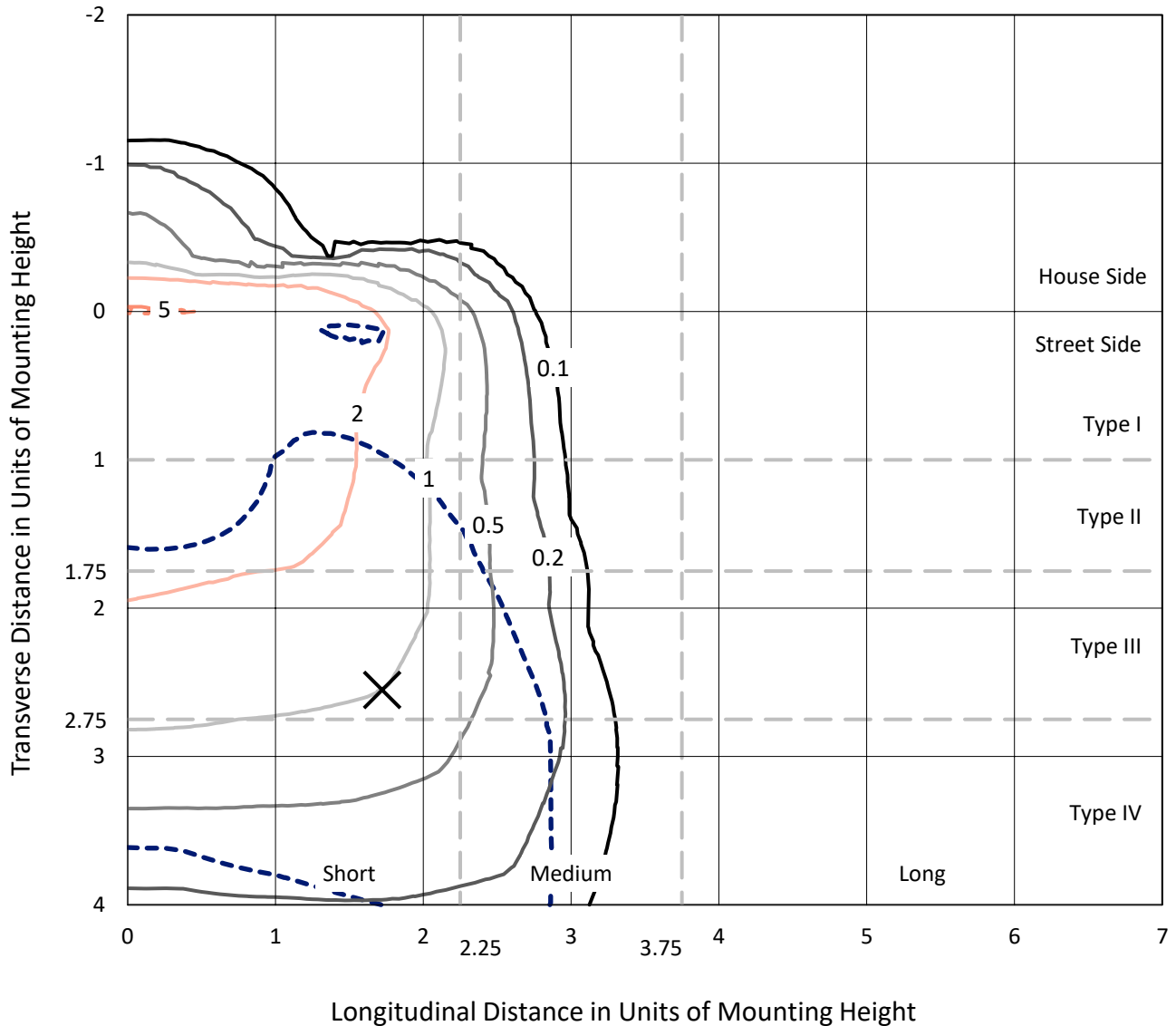
Lumens per Lamp: N/A
Luminaire Lumens: 22086.5 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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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 CATALOG NUMBER: IFLD-S-SA6C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

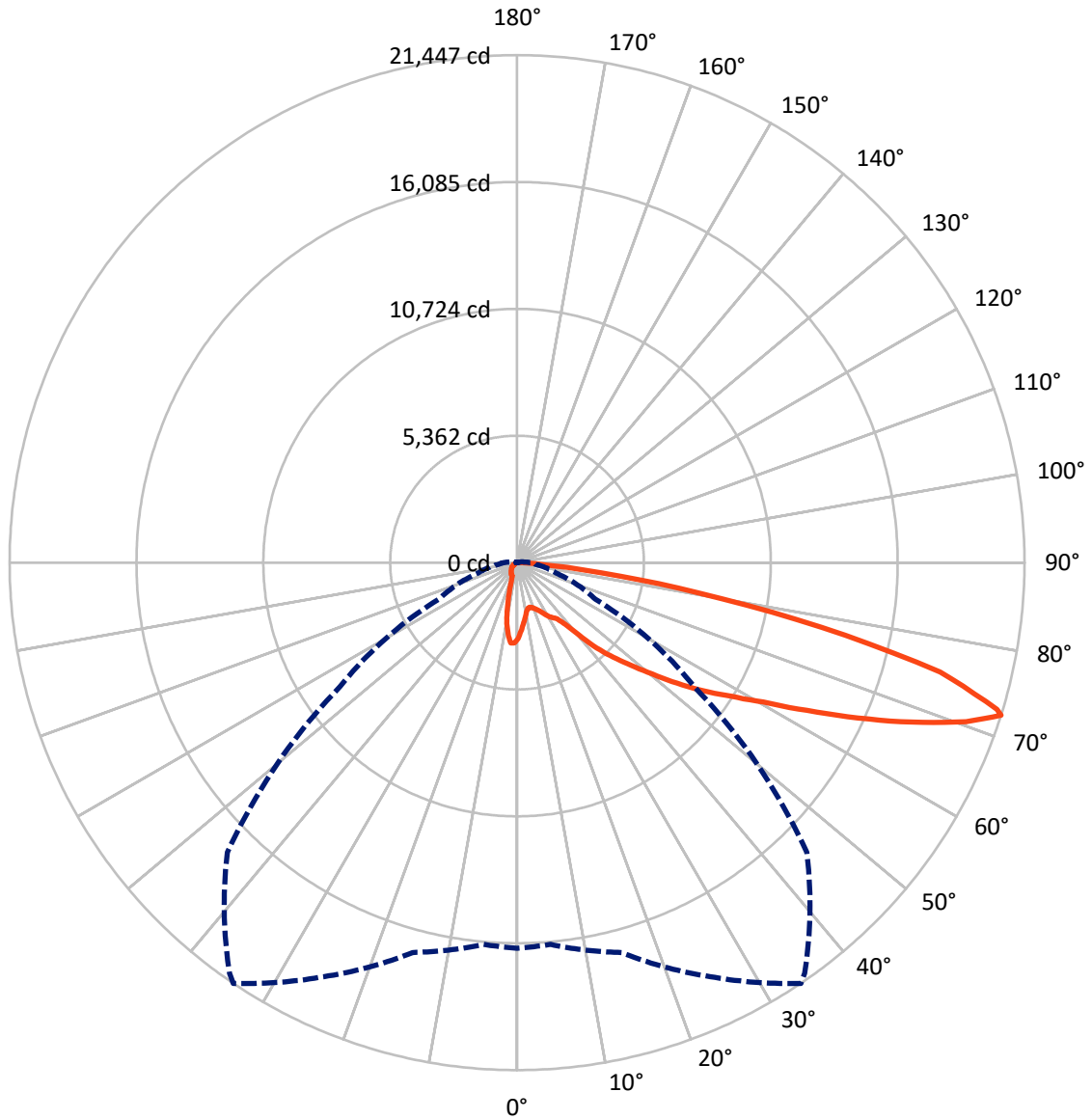
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P483360
CATALOG NUMBER: IFLD-S-SA6C-827-U-T4FT-HSS

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	2261.1	0.0	2261.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	19825.4	0.0	19825.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	22086.5	0.0	22086.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	1.3
10°-20°	635.1	2.9
20°-30°	958.5	4.3
30°-40°	1555.5	7.0
40°-50°	2925.1	13.2
50°-60°	4782.6	21.7
60°-70°	6357.8	28.8
70°-80°	4257.8	19.3
80°-90°	333.7	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°	22086.5	100.0
0°-180°	22086.5	100.0

Coefficient of Utilization



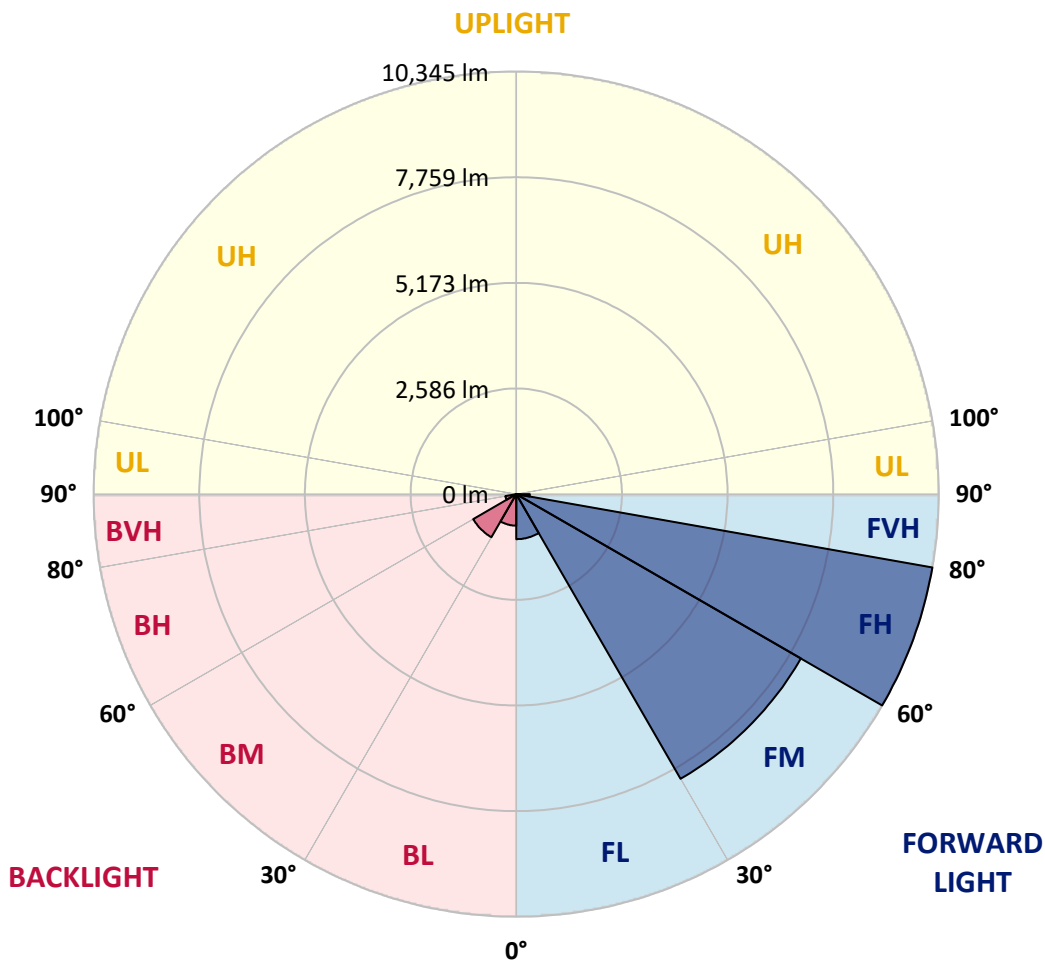
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 CATALOG NUMBER: IFLD-S-SA6C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.6	5.0			
FM (30°-60°)	8046.1	36.4			
FH (60°-80°)	10345.2	46.8			G4/12000
FVH (80°-90°)	331.6	1.5			G3/500
BL (0°-30°)	771.5	3.5	B2/1000		
BM (30°-60°)	1217.1	5.5	B2/2500		
BH (60°-80°)	270.4	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: P483360

CATALOG NUMBER: IFLD-S-SA6C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3
2.5°	2857.7	2851.3	2870.5	2902.4	2934.3	2921.6	2982.2	3046.1	3090.8	3151.5	3224.9
5°	2496.9	2512.9	2532.0	2595.9	2637.4	2647.0	2758.7	2841.7	2979.0	3119.5	3250.4
7.5°	2168.0	2187.2	2225.5	2295.7	2381.9	2404.3	2516.1	2682.1	2860.9	3046.1	3260.0
10°	1928.5	1947.7	1989.2	2033.9	2148.9	2148.9	2302.1	2532.0	2765.1	2982.2	3263.2
12.5°	1877.5	1887.0	1883.8	1919.0	1992.4	2008.4	2158.4	2410.7	2682.1	2959.9	3314.3
15°	1938.1	1944.5	1912.6	1893.4	1957.3	1973.2	2113.7	2337.2	2627.8	2972.6	3397.3
17.5°	2059.5	2037.1	1973.2	1944.5	1998.8	2008.4	2139.3	2334.1	2621.4	3007.8	3493.1
20°	2129.7	2155.2	2043.5	1989.2	2065.8	2078.6	2219.1	2385.1	2653.4	3068.4	3627.2
22.5°	2254.2	2267.0	2116.9	2081.8	2155.2	2155.2	2314.9	2487.3	2730.0	3167.4	3786.9
25°	2429.8	2413.9	2238.3	2203.1	2273.4	2302.1	2461.8	2650.2	2848.1	3260.0	3933.7
27.5°	2567.1	2576.7	2433.0	2340.4	2458.6	2477.7	2650.2	2825.8	2937.5	3336.6	4112.5
30°	2771.5	2752.3	2599.1	2493.7	2640.6	2643.8	2809.8	2991.8	3109.9	3473.9	4380.7
32.5°	3014.2	2975.8	2800.2	2650.2	2768.3	2797.0	2966.3	3231.3	3378.2	3732.6	4795.8
35°	3528.2	3435.6	3148.3	2915.2	2924.8	2937.5	3199.3	3579.3	3748.5	4061.4	5351.4
37.5°	4278.6	4240.3	3914.6	3470.7	3301.5	3263.2	3557.0	4039.1	4249.8	4495.7	6073.0
40°	5022.5	4968.2	4664.9	4329.7	4023.1	3946.5	4093.4	4649.0	4840.5	5099.2	6813.8
42.5°	5849.5	5753.7	5396.1	5124.7	4933.1	4850.1	4792.6	5415.3	5632.4	5808.0	7538.6
45°	6686.1	6529.6	6012.3	5804.8	5702.6	5657.9	5651.5	6379.5	6510.4	6545.6	8343.2
47.5°	7420.4	7251.2	6781.8	6548.8	6472.1	6459.4	6817.0	7490.7	7388.5	7295.9	9240.4
50°	7985.6	7877.0	7538.6	7455.6	7398.1	7375.7	8212.3	8633.8	8161.2	7998.4	10029.1
52.5°	8860.5	8617.8	8234.6	8263.4	8464.5	8467.7	9626.8	9719.4	8803.0	8480.5	10773.0
55°	9559.7	9400.1	9087.2	9045.7	9575.7	9633.2	10894.4	10543.2	9160.6	8940.3	11047.6
57.5°	10383.5	10310.1	10083.4	10089.8	10645.3	10766.7	12021.5	11239.2	9457.5	9237.2	11089.2
60°	11574.5	11363.7	11245.6	11299.9	11954.4	12072.6	13113.5	11740.5	9601.2	9432.0	10987.0
62.5°	12890.0	12644.1	12516.4	12794.2	13748.9	13768.0	13943.7	12184.3	9511.8	9483.1	10329.2
65°	14473.7	14231.0	14128.9	14687.6	15821.1	15750.9	15109.1	12372.7	9227.7	8969.0	8601.8
67.5°	16051.0	15904.1	15693.4	16584.2	17995.5	17995.5	16319.2	12302.5	8483.7	7200.1	5626.0
70°	16798.2	16900.3	17235.6	18634.1	20131.6	19978.4	17513.4	11494.7	6315.7	3866.7	2212.7
72°	16300.1	16194.7	17060.0	19304.6	21447.1	21194.9	17312.2	9138.3	3649.6	1695.5	769.5
72.5°	15444.3	15543.3	16734.3	19212.0	21201.3	21408.8	16820.5	8429.4	3001.4	1350.6	581.1
75°	9470.3	9639.5	12490.9	16312.8	18474.5	18241.4	13011.3	4016.7	1152.7	574.7	207.5
77.5°	3458.0	3598.5	6060.2	10265.4	13139.0	12992.2	7529.0	1427.3	625.8	427.9	105.4
80°	900.4	973.9	2059.5	4735.2	7727.0	7736.5	3151.5	571.5	424.7	351.2	63.9
82.5°	178.8	198.0	632.2	1842.3	3611.2	3563.3	996.2	306.5	319.3	287.4	44.7
85°	22.4	28.7	134.1	625.8	1168.6	1047.3	245.9	153.3	236.3	223.5	28.7
87.5°	3.2	3.2	31.9	143.7	245.9	239.5	51.1	47.9	105.4	137.3	16.0
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°	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3	3231.3
2.5°	3266.4	3279.2	3323.9	3362.2	3406.9	3419.7	3400.5	3432.4	3387.7	3413.3	3419.7
5°	3272.8	3346.2	3429.2	3483.5	3470.7	3438.8	3413.3	3327.1	3266.4	3244.0	3291.9
7.5°	3317.5	3400.5	3489.9	3489.9	3419.7	3253.6	3094.0	2940.7	2813.0	2749.1	2803.4
10°	3375.0	3461.2	3553.8	3432.4	3170.6	2867.3	2640.6	2353.2	2158.4	2056.3	2065.8
12.5°	3451.6	3572.9	3604.9	3323.9	2889.6	2439.4	2027.5	1628.4	1443.2	1296.3	1299.5
15°	3550.6	3668.7	3572.9	3087.6	2532.0	1867.9	1373.0	993.0	846.1	769.5	769.5
17.5°	3681.5	3770.9	3563.3	2870.5	2049.9	1277.2	842.9	670.5	638.6	625.8	625.8
20°	3834.7	3901.8	3470.7	2532.0	1523.0	820.6	619.4	600.3	603.5	597.1	597.1
22.5°	4007.2	4029.5	3365.4	2139.3	1031.3	606.7	577.9	581.1	584.3	577.9	581.1
25°	4189.2	4128.5	3212.1	1679.5	686.5	552.4	558.8	565.2	568.3	571.5	571.5
27.5°	4393.5	4272.2	2998.2	1229.3	536.4	520.5	539.6	558.8	562.0	562.0	558.8
30°	4693.7	4492.5	2790.6	833.4	472.6	485.3	517.3	539.6	555.6	555.6	552.4
32.5°	5073.6	4722.4	2500.1	568.3	437.4	443.8	469.4	514.1	549.2	552.4	542.8
35°	5600.5	5000.2	2196.8	453.4	411.9	415.1	431.0	466.2	526.8	546.0	542.8
37.5°	6156.0	5316.3	1820.0	408.7	392.7	389.5	399.1	427.9	482.1	530.0	533.2
40°	6746.7	5648.3	1424.1	386.3	376.8	370.4	373.6	386.3	427.9	488.5	501.3
42.5°	7302.3	5948.5	1069.6	364.0	360.8	354.4	354.4	357.6	380.0	421.5	427.9
45°	7902.6	6194.3	814.2	348.0	338.5	341.6	328.9	322.5	338.5	341.6	338.5
47.5°	8464.5	6440.2	651.4	328.9	319.3	319.3	303.3	290.6	290.6	261.8	258.6
50°	8991.4	6574.3	520.5	303.3	300.1	296.9	274.6	252.2	233.1	198.0	191.6
52.5°	9428.8	6567.9	402.3	271.4	281.0	271.4	236.3	204.3	175.6	143.7	137.3
55°	9559.7	6261.4	303.3	223.5	239.5	226.7	188.4	159.6	127.7	102.2	99.0
57.5°	9448.0	5795.2	229.9	172.4	185.2	172.4	143.7	118.1	89.4	70.2	63.9
60°	9074.4	5249.2	178.8	134.1	140.5	130.9	108.6	89.4	63.9	44.7	38.3
62.5°	8365.6	4565.9	137.3	105.4	102.2	102.2	83.0	67.1	44.7	25.5	22.4
65°	6864.9	3560.2	105.4	73.4	73.4	73.4	63.9	47.9	28.7	12.8	6.4
67.5°	4310.5	2072.2	86.2	57.5	54.3	54.3	44.7	31.9	16.0	3.2	0.0
70°	1622.0	759.9	67.1	44.7	41.5	41.5	31.9	19.2	9.6	0.0	0.0
72°	558.8	290.6	54.3	31.9	31.9	28.7	22.4	16.0	6.4	0.0	0.0
72.5°	459.8	233.1	51.1	31.9	28.7	28.7	22.4	16.0	6.4	0.0	0.0
75°	166.0	95.8	35.1	22.4	19.2	19.2	16.0	9.6	3.2	0.0	0.0
77.5°	83.0	60.7	28.7	19.2	16.0	9.6	9.6	6.4	3.2	0.0	0.0
80°	51.1	38.3	16.0	12.8	9.6	6.4	3.2	3.2	0.0	0.0	0.0
82.5°	35.1	22.4	9.6	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.4	9.6	6.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	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)