

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: P483361

Luminaire Tested: **IFLD-S-SA6D-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483361
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

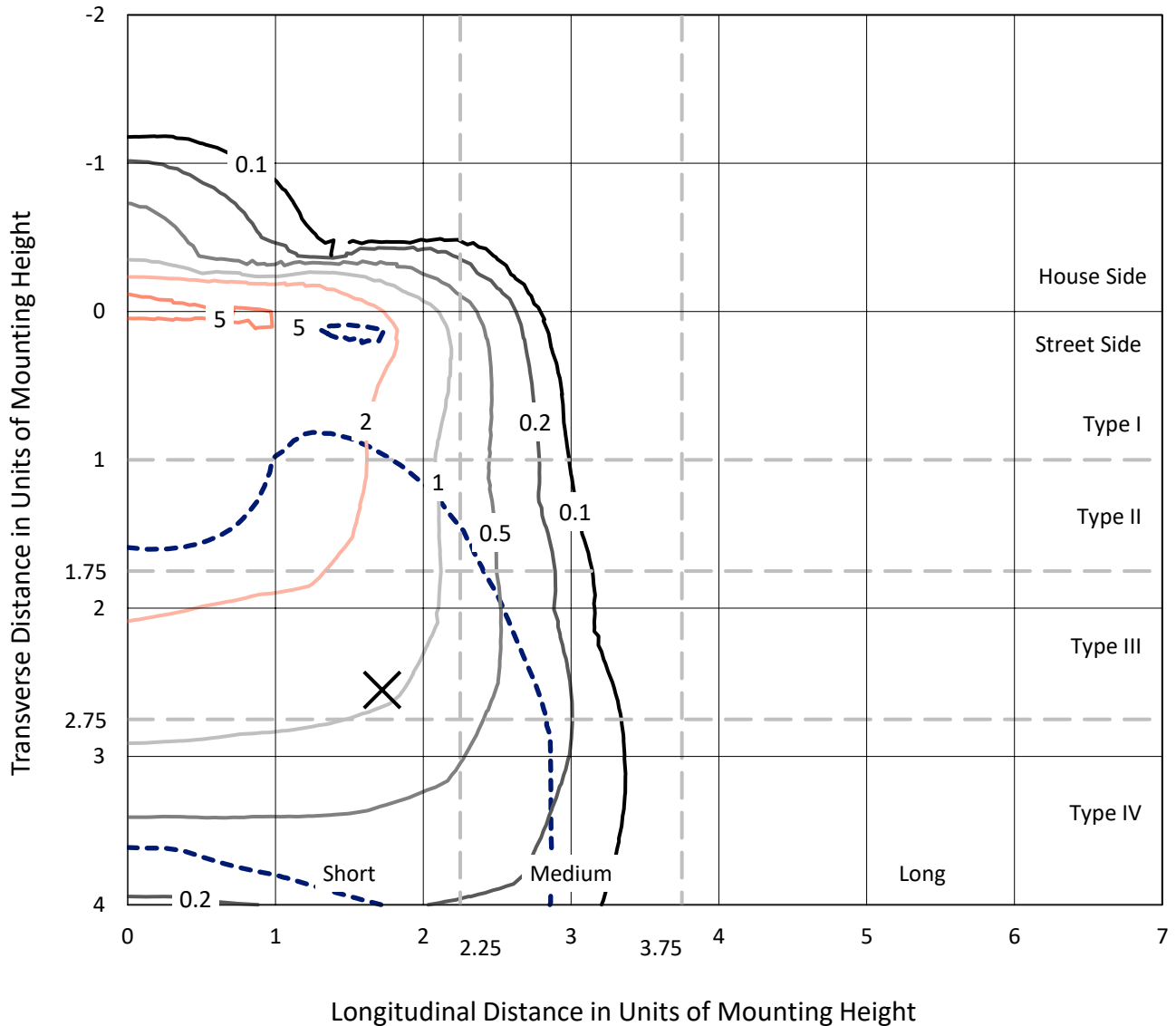
Lumens per Lamp: N/A
Luminaire Lumens: 24303.1 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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: P483361
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

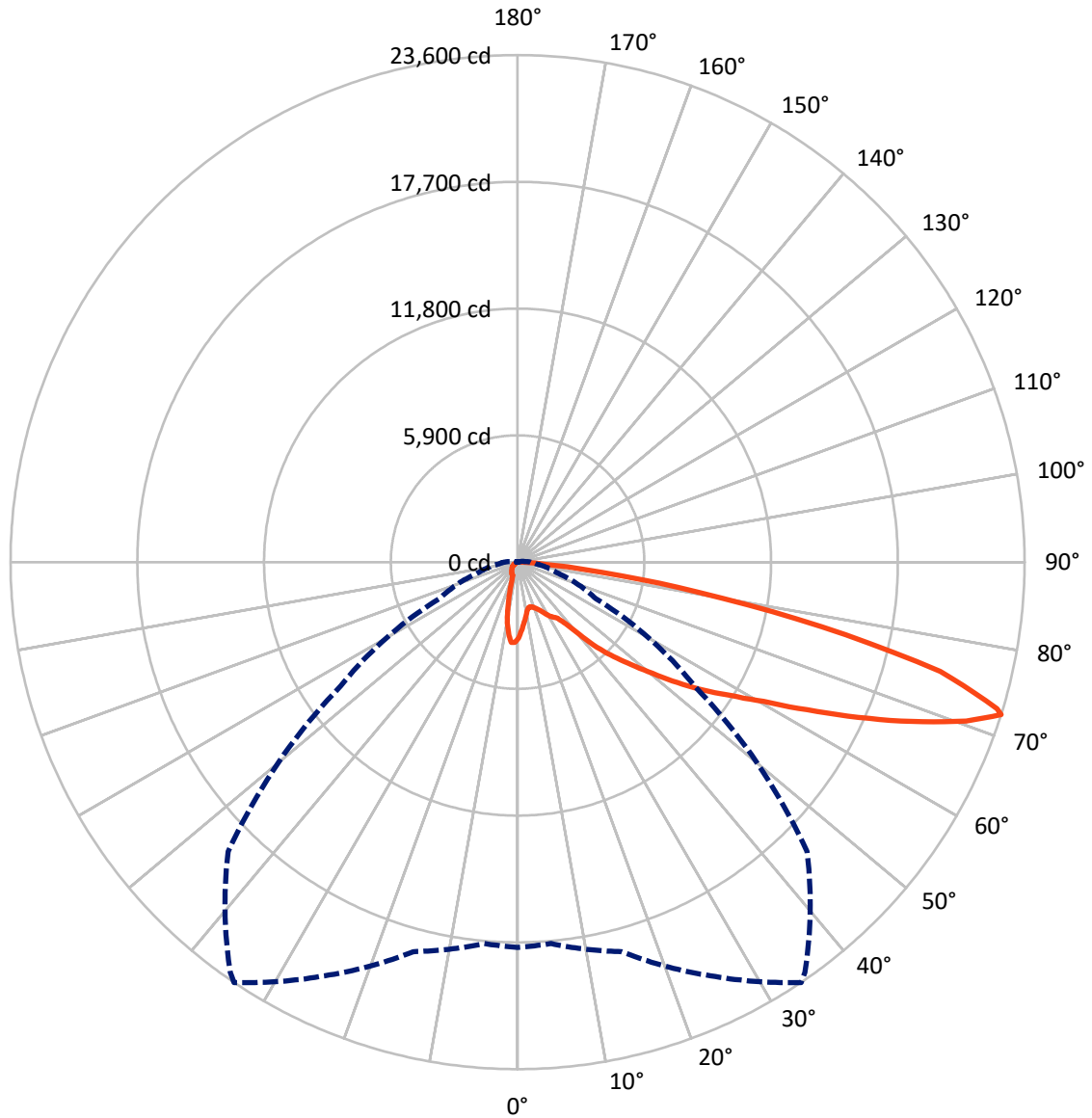
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483361
CATALOG NUMBER: IFLD-S-SA6D-827-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483361
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2488.1	0.0	2488.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21815.0	0.0	21815.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	24303.1	0.0	24303.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	1.3
10°-20°	698.8	2.9
20°-30°	1054.7	4.3
30°-40°	1711.6	7.0
40°-50°	3218.7	13.2
50°-60°	5262.6	21.7
60°-70°	6995.8	28.8
70°-80°	4685.0	19.3
80°-90°	367.1	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°	24303.1	100.0
0°-180°	24303.1	100.0



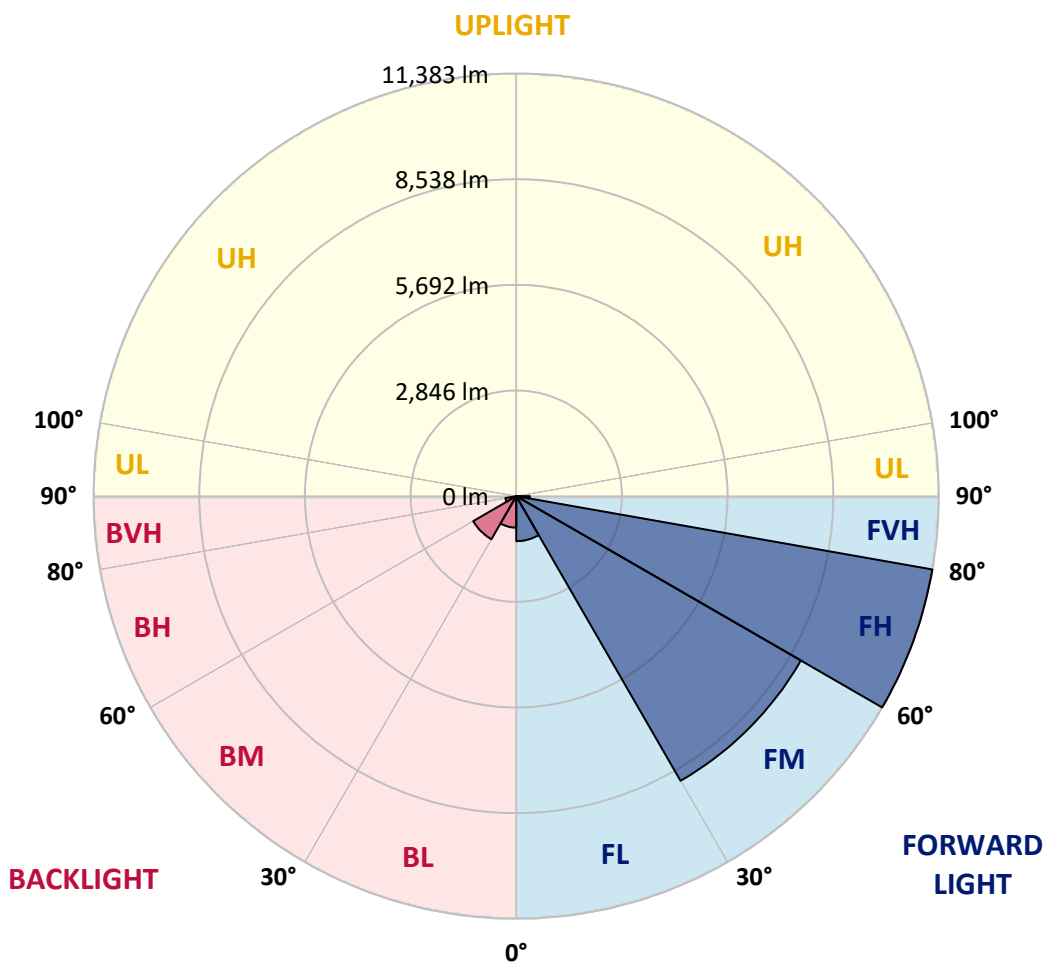
REPORT NUMBER: P483361
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1213.3	5.0			
FM	(30°-60°)	8853.6	36.4			
FH	(60°-80°)	11383.4	46.8			G4/12000
FVH	(80°-90°)	364.8	1.5			G3/500
BL	(0°-30°)	848.9	3.5	B2/1000		
BM	(30°-60°)	1339.3	5.5	B2/2500		
BH	(60°-80°)	297.5	1.2	B1/500		G1/500
BVH	(80°-90°)	2.3	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: P483361

CATALOG NUMBER: IFLD-S-SA6D-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6
2.5°	3144.5	3137.5	3158.5	3193.7	3228.8	3214.8	3281.5	3351.8	3401.0	3467.7	3548.5
5°	2747.5	2765.0	2786.1	2856.4	2902.1	2912.6	3035.6	3126.9	3278.0	3432.6	3576.6
7.5°	2385.6	2406.7	2448.8	2526.1	2621.0	2645.6	2768.6	2951.3	3148.0	3351.8	3587.2
10°	2122.1	2143.2	2188.8	2238.0	2364.5	2364.5	2533.2	2786.1	3042.6	3281.5	3590.7
12.5°	2065.9	2076.4	2072.9	2111.6	2192.4	2209.9	2375.1	2652.6	2951.3	3256.9	3646.9
15°	2132.6	2139.7	2104.5	2083.4	2153.7	2171.3	2325.9	2571.8	2891.5	3271.0	3738.3
17.5°	2266.1	2241.5	2171.3	2139.7	2199.4	2209.9	2354.0	2568.3	2884.5	3309.6	3843.7
20°	2343.4	2371.5	2248.6	2188.8	2273.2	2287.2	2441.8	2624.5	2919.6	3376.4	3991.2
22.5°	2480.5	2494.5	2329.4	2290.7	2371.5	2371.5	2547.2	2736.9	3004.0	3485.3	4166.9
25°	2673.7	2656.1	2462.9	2424.2	2501.5	2533.2	2708.8	2916.1	3133.9	3587.2	4328.5
27.5°	2824.8	2835.3	2677.2	2575.3	2705.3	2726.4	2916.1	3109.4	3232.3	3671.5	4525.3
30°	3049.6	3028.5	2859.9	2744.0	2905.6	2909.1	3091.8	3292.1	3422.0	3822.6	4820.4
32.5°	3316.6	3274.5	3081.2	2916.1	3046.1	3077.7	3263.9	3555.6	3717.2	4107.2	5277.1
35°	3882.3	3780.4	3464.2	3207.7	3218.3	3232.3	3520.4	3938.5	4124.7	4469.0	5888.5
37.5°	4708.0	4665.8	4307.4	3819.1	3632.9	3590.7	3913.9	4444.4	4676.3	4946.9	6682.5
40°	5526.6	5466.8	5133.1	4764.2	4426.9	4342.6	4504.2	5115.5	5326.3	5610.9	7497.6
42.5°	6436.5	6331.1	5937.6	5639.0	5428.2	5336.8	5273.6	5958.7	6197.6	6390.9	8295.1
45°	7357.1	7184.9	6615.7	6387.4	6274.9	6225.7	6218.7	7019.8	7163.8	7202.5	9180.5
47.5°	8165.1	7978.9	7462.5	7206.0	7121.7	7107.6	7501.1	8242.4	8130.0	8028.1	10167.8
50°	8787.0	8667.5	8295.1	8203.8	8140.5	8115.9	9036.5	9500.2	8980.2	8801.1	11035.6
52.5°	9749.7	9482.7	9061.1	9092.7	9314.0	9317.5	10592.9	10694.8	9686.4	9331.6	11854.2
55°	10519.1	10343.4	9999.1	9953.5	10536.7	10599.9	11987.7	11601.2	10079.9	9837.5	12156.4
57.5°	11425.6	11344.8	11095.3	11102.3	11713.7	11847.2	13227.9	12367.2	10406.7	10164.3	12202.0
60°	12736.1	12504.2	12374.2	12433.9	13154.2	13284.2	14429.5	12918.8	10564.8	10378.6	12089.6
62.5°	14183.6	13913.1	13772.5	14078.2	15128.7	15149.8	15343.0	13407.1	10466.4	10434.8	11365.8
65°	15926.2	15659.2	15546.8	16161.6	17408.9	17331.6	16625.4	13614.4	10153.7	9869.1	9465.1
67.5°	17661.8	17500.2	17268.3	18248.6	19801.5	19801.5	17957.0	13537.1	9335.1	7922.7	6190.6
70°	18484.0	18596.4	18965.3	20504.2	22152.0	21983.3	19271.0	12648.2	6949.5	4254.7	2434.8
72°	17935.9	17819.9	18772.1	21242.0	23599.5	23321.9	19049.6	10055.3	4015.8	1865.6	846.7
72.5°	16994.3	17103.2	18413.7	21140.1	23329.0	23557.3	18508.6	9275.4	3302.6	1486.2	639.4
75°	10420.7	10606.9	13744.4	17949.9	20328.5	20072.0	14317.1	4419.9	1268.3	632.4	228.4
77.5°	3805.0	3959.6	6668.4	11295.6	14457.6	14296.0	8284.6	1570.5	688.6	470.8	115.9
80°	990.8	1071.6	2266.1	5210.4	8502.4	8513.0	3467.7	628.9	467.3	386.5	70.3
82.5°	196.8	217.8	695.7	2027.2	3973.7	3921.0	1096.2	337.3	351.3	316.2	49.2
85°	24.6	31.6	147.6	688.6	1285.9	1152.4	270.5	168.6	260.0	245.9	31.6
87.5°	3.5	3.5	35.1	158.1	270.5	263.5	56.2	52.7	115.9	151.1	17.6
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: P483361

CATALOG NUMBER: IFLD-S-SA6D-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6	3555.6
2.5°	3594.2	3608.3	3657.4	3699.6	3748.8	3762.8	3741.8	3776.9	3727.7	3755.8	3762.8
5°	3601.2	3682.0	3773.4	3833.1	3819.1	3783.9	3755.8	3661.0	3594.2	3569.6	3622.3
7.5°	3650.4	3741.8	3840.1	3840.1	3762.8	3580.2	3404.5	3235.8	3095.3	3025.0	3084.8
10°	3713.7	3808.5	3910.4	3776.9	3488.8	3155.0	2905.6	2589.4	2375.1	2262.6	2273.2
12.5°	3798.0	3931.5	3966.6	3657.4	3179.6	2684.2	2231.0	1791.8	1588.1	1426.4	1430.0
15°	3906.9	4036.9	3931.5	3397.5	2786.1	2055.3	1510.8	1092.7	931.1	846.7	846.7
17.5°	4050.9	4149.3	3921.0	3158.5	2255.6	1405.4	927.5	737.8	702.7	688.6	688.6
20°	4219.6	4293.4	3819.1	2786.1	1675.9	902.9	681.6	660.5	664.0	657.0	657.0
22.5°	4409.3	4433.9	3703.1	2354.0	1134.8	667.5	635.9	639.4	643.0	635.9	639.4
25°	4609.6	4542.8	3534.5	1848.0	755.4	607.8	614.8	621.9	625.4	628.9	628.9
27.5°	4834.4	4700.9	3299.1	1352.7	590.3	572.7	593.8	614.8	618.4	618.4	614.8
30°	5164.7	4943.3	3070.7	917.0	520.0	534.0	569.2	593.8	611.3	611.3	607.8
32.5°	5582.8	5196.3	2751.0	625.4	481.3	488.4	516.5	565.7	604.3	607.8	597.3
35°	6162.5	5502.0	2417.2	498.9	453.2	456.7	474.3	513.0	579.7	600.8	597.3
37.5°	6773.8	5849.8	2002.6	449.7	432.1	428.6	439.2	470.8	530.5	583.2	586.7
40°	7423.8	6215.2	1567.0	425.1	414.6	407.6	411.1	425.1	470.8	537.5	551.6
42.5°	8035.1	6545.5	1177.0	400.5	397.0	390.0	390.0	393.5	418.1	463.8	470.8
45°	8695.7	6816.0	895.9	383.0	372.4	375.9	361.9	354.9	372.4	375.9	372.4
47.5°	9314.0	7086.5	716.7	361.9	351.3	351.3	333.8	319.7	319.7	288.1	284.6
50°	9893.7	7234.1	572.7	333.8	330.3	326.7	302.2	277.6	256.5	217.8	210.8
52.5°	10375.1	7227.1	442.7	298.6	309.2	298.6	260.0	224.9	193.2	158.1	151.1
55°	10519.1	6889.8	333.8	245.9	263.5	249.5	207.3	175.7	140.5	112.4	108.9
57.5°	10396.1	6376.8	253.0	189.7	203.8	189.7	158.1	130.0	98.4	77.3	70.3
60°	9985.1	5776.0	196.8	147.6	154.6	144.0	119.5	98.4	70.3	49.2	42.2
62.5°	9205.1	5024.2	151.1	115.9	112.4	112.4	91.3	73.8	49.2	28.1	24.6
65°	7553.8	3917.4	115.9	80.8	80.8	80.8	70.3	52.7	31.6	14.1	7.0
67.5°	4743.1	2280.2	94.9	63.2	59.7	59.7	49.2	35.1	17.6	3.5	0.0
70°	1784.8	836.2	73.8	49.2	45.7	45.7	35.1	21.1	10.5	0.0	0.0
72°	614.8	319.7	59.7	35.1	35.1	31.6	24.6	17.6	7.0	0.0	0.0
72.5°	505.9	256.5	56.2	35.1	31.6	31.6	24.6	17.6	7.0	0.0	0.0
75°	182.7	105.4	38.6	24.6	21.1	21.1	17.6	10.5	3.5	0.0	0.0
77.5°	91.3	66.8	31.6	21.1	17.6	10.5	10.5	7.0	3.5	0.0	0.0
80°	56.2	42.2	17.6	14.1	10.5	7.0	3.5	3.5	0.0	0.0	0.0
82.5°	38.6	24.6	10.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
85°	24.6	10.5	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	7.0	3.5	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)