

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: P480494

Luminaire Tested: **IFLD-S-SA2D-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480494
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

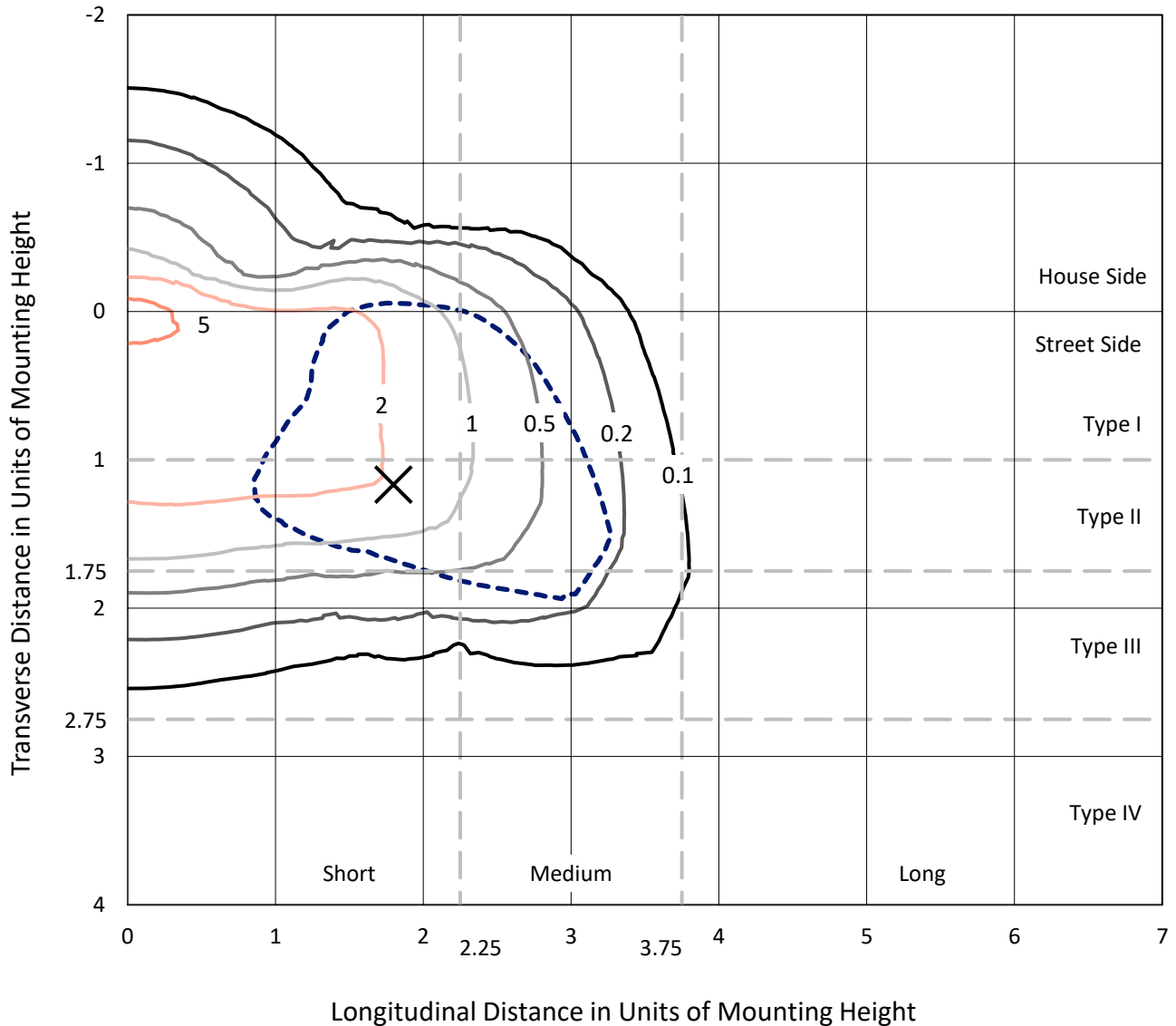
Lumens per Lamp: N/A
Luminaire Lumens: 15431.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P480494
 CATALOG NUMBER: IFLD-S-SA2D-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

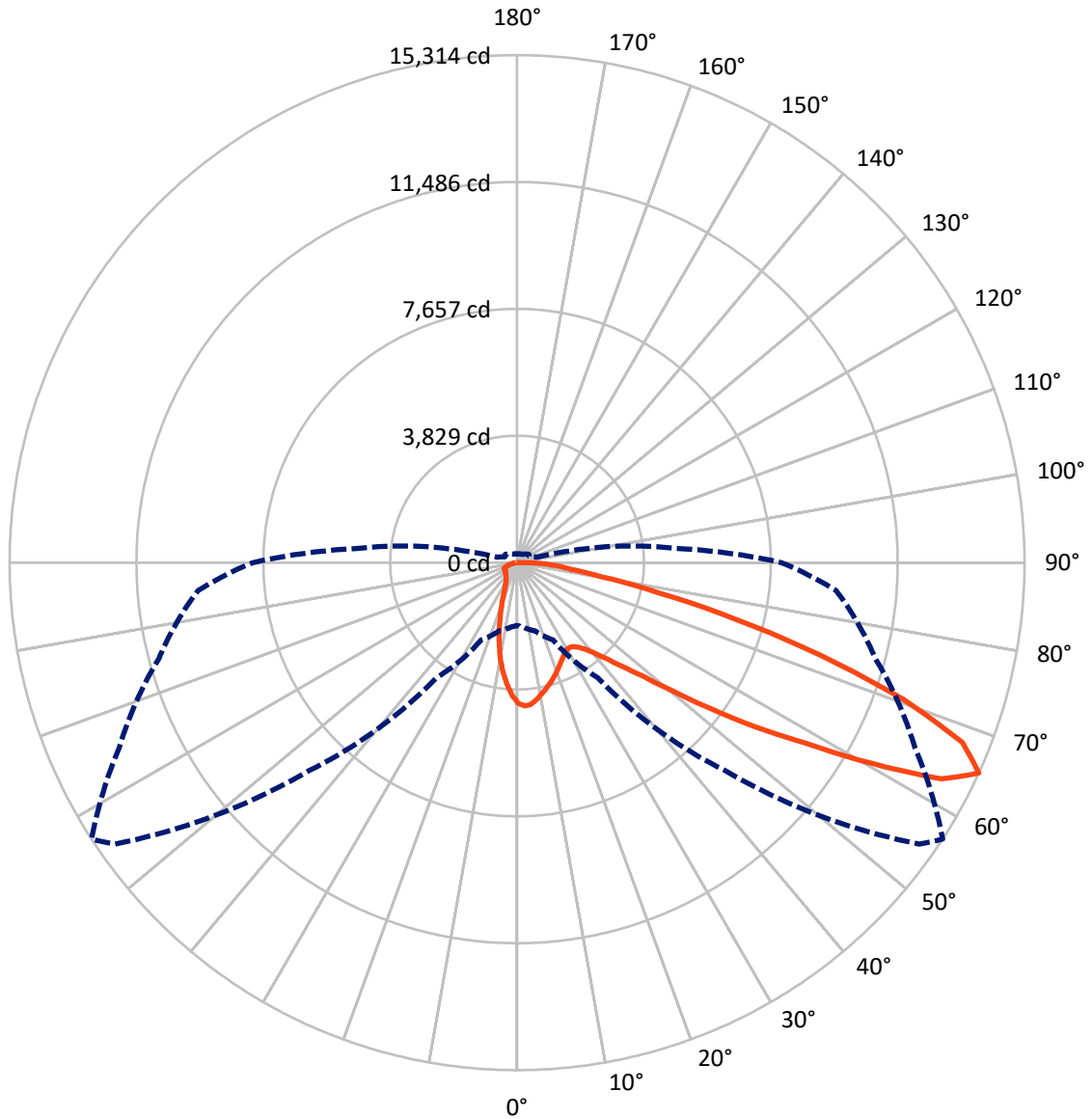
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P480494
CATALOG NUMBER: IFLD-S-SA2D-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480494
 CATALOG NUMBER: IFLD-S-SA2D-740-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.6	0.0	2366.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13065.3	0.0	13065.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	15431.9	0.0	15431.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	2.3
10°-20°	764.8	5.0
20°-30°	988.8	6.4
30°-40°	1330.6	8.6
40°-50°	2121.8	13.7
50°-60°	3747.5	24.3
60°-70°	4122.8	26.7
70°-80°	1724.6	11.2
80°-90°	275.6	1.8
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°	15431.9	100.0
0°-180°	15431.9	100.0

Coefficient of Utilization



REPORT NUMBER: P480494

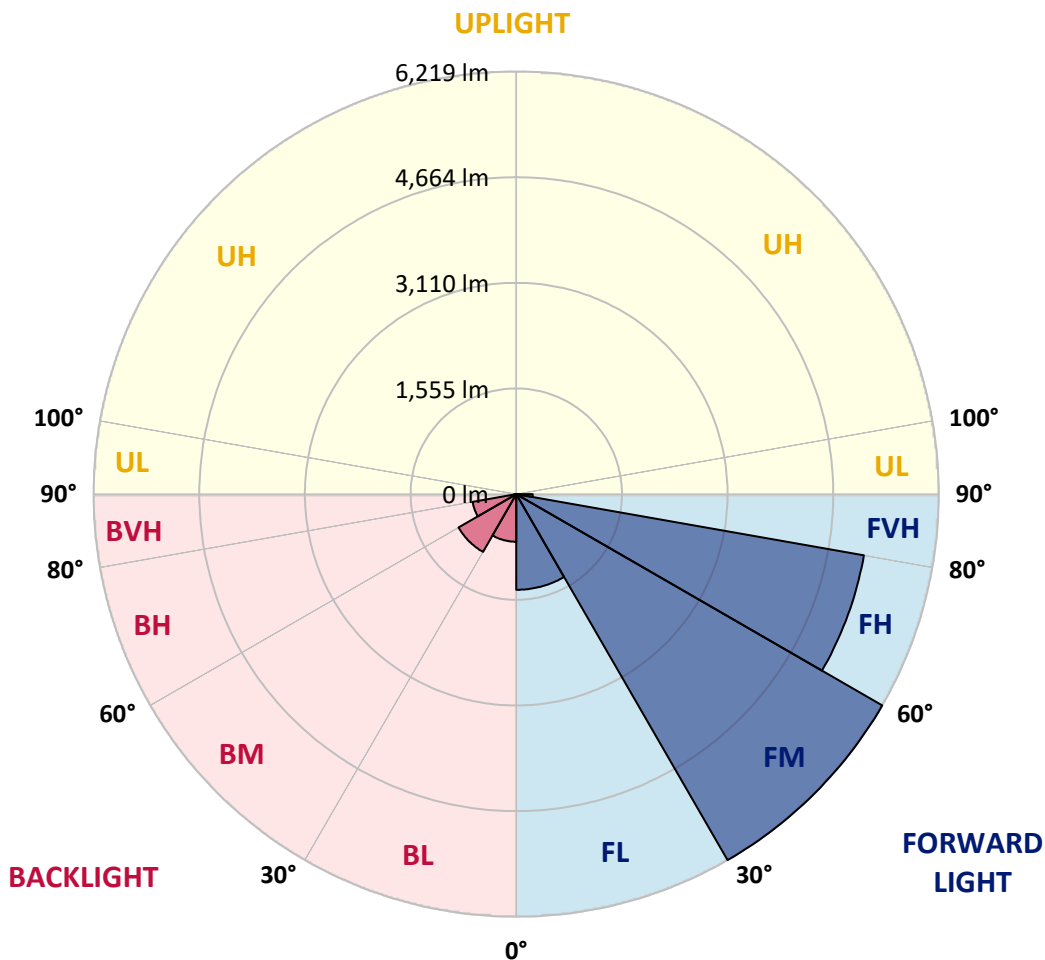
CATALOG NUMBER: IFLD-S-SA2D-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.1	9.1			
FM (30°-60°)	6219.0	40.3			
FH (60°-80°)	5194.8	33.7			G3/7500
FVH (80°-90°)	243.3	1.6			G3/500
BL (0°-30°)	700.9	4.5	B2/1000		
BM (30°-60°)	980.9	6.4	B1/1000		
BH (60°-80°)	652.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	32.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P480494

CATALOG NUMBER: IFLD-S-SA2D-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6
2.5°	4358.2	4365.1	4365.1	4379.0	4332.1	4354.7	4351.2	4330.4	4337.3	4300.9	4264.4
5°	4234.9	4229.7	4257.5	4260.9	4297.4	4307.8	4316.5	4302.6	4306.1	4226.2	4191.5
7.5°	3918.9	3917.1	3964.0	4003.9	4080.3	4151.5	4198.4	4184.5	4203.6	4153.3	4071.7
10°	3543.8	3583.8	3632.4	3672.3	3813.0	3903.2	4024.8	4036.9	4109.9	4097.7	3950.1
12.5°	3262.5	3279.9	3316.4	3431.0	3559.5	3708.8	3882.4	3898.0	3969.2	4003.9	3875.5
15°	3031.6	3047.2	3094.1	3179.2	3323.3	3500.4	3720.9	3760.9	3903.2	3915.4	3778.2
17.5°	2863.2	2875.3	2906.6	2991.7	3109.7	3337.2	3545.6	3616.7	3804.3	3863.3	3677.5
20°	2797.2	2771.2	2788.5	2842.4	2960.4	3135.8	3404.9	3467.4	3707.0	3823.4	3582.0
22.5°	2767.7	2745.1	2755.5	2752.1	2845.8	2970.8	3253.9	3319.8	3615.0	3776.5	3496.9
25°	2790.3	2790.3	2779.8	2771.2	2781.6	2863.2	3090.6	3193.1	3491.7	3736.6	3410.1
27.5°	2911.8	2864.9	2870.1	2833.7	2823.3	2823.3	3017.7	3078.5	3451.8	3714.0	3338.9
30°	2989.9	3012.5	3014.2	2960.4	2906.6	2809.4	2950.0	3009.0	3418.8	3741.8	3297.3
32.5°	3189.6	3179.2	3149.7	3139.3	3059.4	2950.0	2983.0	3022.9	3399.7	3804.3	3309.4
35°	3389.3	3384.1	3385.8	3380.6	3297.3	3135.8	3071.5	3125.4	3434.4	3913.7	3351.1
37.5°	3595.9	3609.8	3668.8	3668.8	3580.3	3404.9	3319.8	3304.2	3561.2	4092.5	3450.1
40°	3802.5	3837.3	3911.9	4030.0	3905.0	3741.8	3604.6	3580.3	3714.0	4332.1	3687.9
42.5°	4000.5	4057.8	4205.4	4380.7	4339.1	4175.8	3993.5	3965.7	4028.3	4688.1	4019.6
45°	4254.0	4302.6	4535.3	4804.4	4861.7	4717.6	4504.0	4481.4	4478.0	5209.0	4476.2
47.5°	4639.4	4691.5	4924.2	5195.1	5372.2	5394.7	5155.1	5130.8	5047.5	5912.2	5144.7
50°	5122.1	5207.2	5403.4	5719.4	5976.4	6217.8	6150.0	6078.8	5915.6	6730.0	5992.0
52.5°	5474.6	5578.8	5844.4	6249.0	6702.2	7085.9	7329.0	7329.0	6954.0	7627.6	7011.3
55°	5568.4	5630.9	5966.0	6551.1	7327.3	8297.9	8806.6	8768.4	8190.2	8572.2	8197.2
57.5°	5195.1	5276.7	5683.0	6295.9	7655.4	9431.7	10273.8	10282.5	9541.1	9669.6	9367.4
60°	4167.2	4193.2	4672.4	5492.0	7339.4	10345.0	12277.5	12310.5	11077.7	10647.1	9963.0
62.5°	2880.6	2963.9	3325.0	4043.9	6080.6	10242.5	14210.0	14373.2	12308.8	11162.8	10056.8
65°	1896.1	1946.4	2139.1	2576.7	4233.1	8877.8	14810.8	15314.3	13249.8	11192.3	9664.3
67.5°	1375.2	1383.8	1441.1	1666.9	2543.7	6384.4	13784.6	14494.8	13602.3	10945.7	8744.1
70°	1111.2	1118.2	1139.0	1283.1	1642.6	3995.3	11242.7	12355.6	12544.9	9777.2	7042.5
72.5°	902.9	911.6	937.6	1073.0	1354.3	2222.5	8221.5	9577.5	10204.3	7233.5	4681.1
75°	710.2	717.1	779.6	913.3	1272.7	1526.2	5453.8	6782.1	6867.1	4227.9	2191.2
77.5°	486.2	498.3	574.7	774.4	1198.1	1335.2	3399.7	4344.3	3898.0	1654.7	753.6
80°	309.1	326.4	371.6	586.9	1059.2	1274.5	2114.8	2594.1	1706.8	566.0	362.9
82.5°	182.3	199.7	244.8	380.3	831.7	1182.4	1489.8	1623.5	800.4	290.0	218.8
85°	100.7	112.9	147.6	229.2	487.9	1050.5	1192.9	1165.1	458.4	154.5	137.2
87.5°	33.0	38.2	53.8	92.0	201.4	494.9	715.4	672.0	237.9	71.2	53.8
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: P480494
 CATALOG NUMBER: IFLD-S-SA2D-740-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6	4243.6
2.5°	4240.1	4234.9	4156.7	4097.7	3997.0	3913.7	3880.7	3835.5	3833.8	3800.8	3792.1
5°	4137.6	4083.8	3964.0	3849.4	3670.6	3550.8	3441.4	3365.0	3333.7	3266.0	3250.4
7.5°	4005.7	3934.5	3750.4	3535.1	3325.0	3137.5	2967.4	2797.2	2701.7	2668.7	2632.3
10°	3868.5	3743.5	3470.9	3229.6	2936.1	2647.9	2380.5	2140.9	2010.7	1918.6	1878.7
12.5°	3759.1	3592.4	3245.2	2884.0	2496.8	2111.4	1800.6	1548.8	1401.2	1331.8	1300.5
15°	3635.8	3415.3	2998.6	2542.0	2059.3	1621.7	1317.9	1119.9	1060.9	1027.9	1022.7
17.5°	3505.6	3250.4	2731.2	2205.1	1632.1	1220.6	1024.4	944.6	918.5	904.6	897.7
20°	3384.1	3102.8	2456.9	1830.1	1277.9	979.3	887.3	845.6	843.9	850.8	849.1
22.5°	3212.2	2910.1	2186.0	1482.8	1021.0	852.5	793.5	783.1	793.5	802.2	805.7
25°	3115.0	2752.1	1883.9	1177.2	843.9	757.0	737.9	734.5	750.1	760.5	758.8
27.5°	3014.2	2588.8	1602.6	942.8	739.7	689.3	685.8	689.3	704.9	720.6	718.8
30°	2936.1	2458.6	1338.7	788.3	659.8	640.7	637.2	640.7	649.4	651.1	651.1
32.5°	2871.9	2304.1	1114.7	684.1	611.2	595.6	599.0	597.3	599.0	600.8	602.5
35°	2833.7	2212.1	930.7	619.9	571.2	559.1	557.4	552.1	553.9	555.6	553.9
37.5°	2915.3	2166.9	784.8	574.7	543.5	533.0	529.6	526.1	520.9	520.9	520.9
40°	3038.6	2142.6	696.3	545.2	522.6	510.5	500.1	496.6	496.6	498.3	500.1
42.5°	3283.4	2182.6	635.5	522.6	496.6	482.7	472.3	474.0	479.2	484.4	481.0
45°	3637.6	2304.1	607.7	505.3	481.0	461.9	454.9	453.2	458.4	467.1	474.0
47.5°	4101.2	2493.4	597.3	489.6	470.5	444.5	435.8	441.0	448.0	460.1	454.9
50°	4860.0	2918.7	606.0	475.8	454.9	435.8	425.4	420.2	425.4	434.1	437.6
52.5°	5851.4	3691.4	639.0	468.8	444.5	428.9	411.5	402.8	408.0	415.0	415.0
55°	7037.3	4747.1	731.0	460.1	427.1	418.5	399.4	382.0	385.5	385.5	383.7
57.5°	8082.6	5544.1	840.4	448.0	416.7	404.6	380.3	359.4	355.9	357.7	359.4
60°	8551.4	5755.9	892.5	444.5	416.7	387.2	354.2	333.4	328.2	324.7	324.7
62.5°	8469.8	5389.5	786.6	428.9	427.1	373.3	329.9	307.3	300.4	293.4	295.2
65°	7976.6	4866.9	619.9	408.0	428.9	364.6	305.6	283.0	270.9	262.2	260.4
67.5°	7075.5	4155.0	491.4	392.4	411.5	349.0	284.8	258.7	248.3	239.6	236.1
70°	5535.4	3257.3	427.1	371.6	369.8	310.8	260.4	237.9	222.2	211.8	211.8
72.5°	3589.0	2059.3	366.4	329.9	319.5	260.4	225.7	211.8	199.7	191.0	191.0
75°	1625.2	956.7	295.2	276.1	260.4	208.4	191.0	184.0	173.6	165.0	165.0
77.5°	583.4	408.0	220.5	217.0	194.5	161.5	154.5	149.3	142.4	133.7	133.7
80°	326.4	258.7	165.0	158.0	135.4	119.8	111.1	111.1	107.7	102.4	100.7
82.5°	206.6	168.4	121.5	105.9	88.6	79.9	76.4	74.7	72.9	66.0	64.2
85°	130.2	114.6	79.9	62.5	52.1	39.9	38.2	36.5	33.0	29.5	29.5
87.5°	59.0	66.0	31.3	19.1	13.9	8.7	5.2	1.7	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)