

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: P480457

Luminaire Tested: **IFLD-S-SA3A-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480457
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

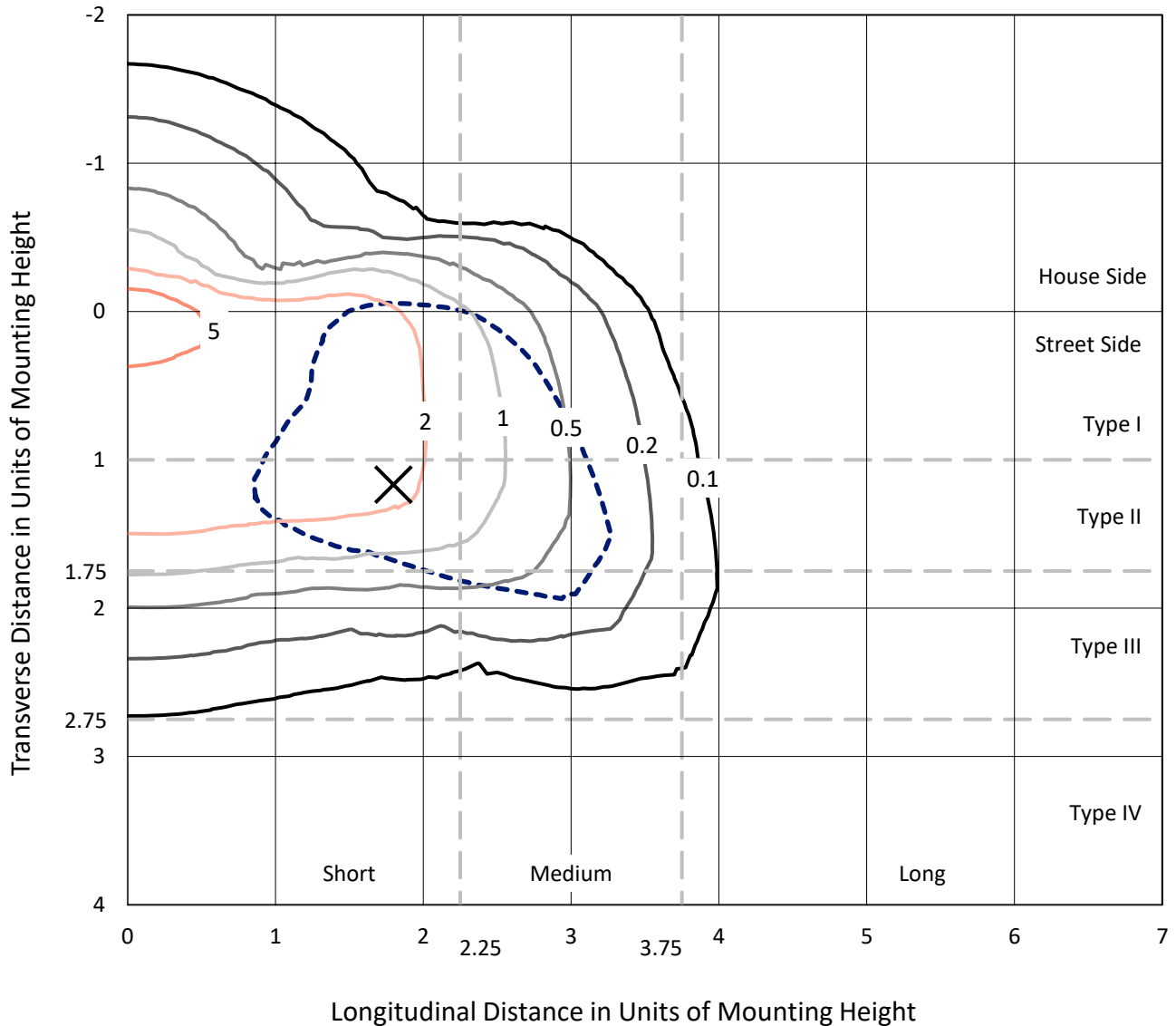
Lumens per Lamp: N/A
Luminaire Lumens: 13389.9 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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: P480457
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

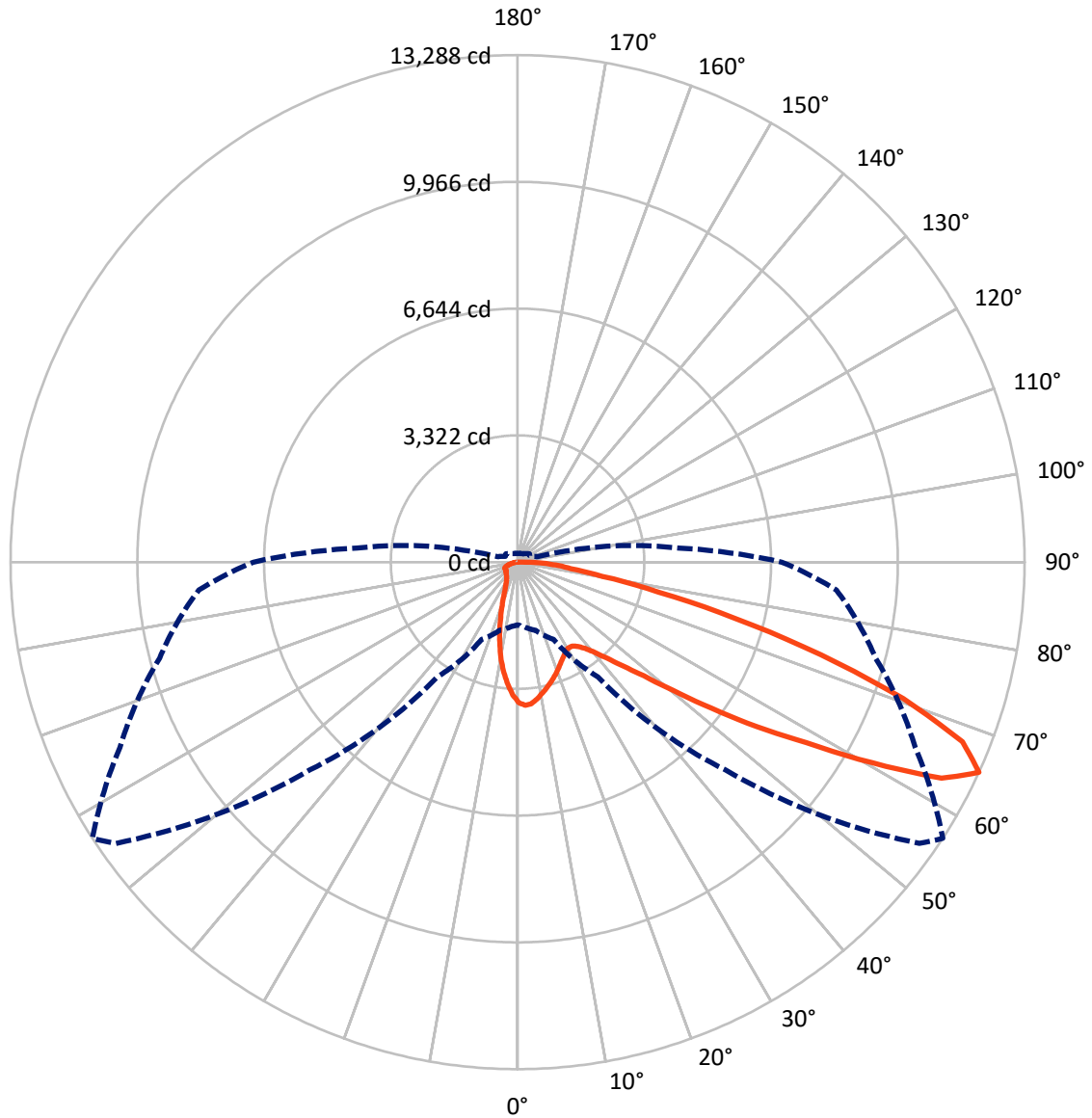
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P480457
CATALOG NUMBER: IFLD-S-SA3A-735-U-SL3

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.5	0.0	2053.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11336.4	0.0	11336.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	13389.9	0.0	13389.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	2.3
10°-20°	663.6	5.0
20°-30°	858.0	6.4
30°-40°	1154.6	8.6
40°-50°	1841.0	13.7
50°-60°	3251.6	24.3
60°-70°	3577.2	26.7
70°-80°	1496.4	11.2
80°-90°	239.2	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°	13389.9	100.0
0°-180°	13389.9	100.0

Coefficient of Utilization



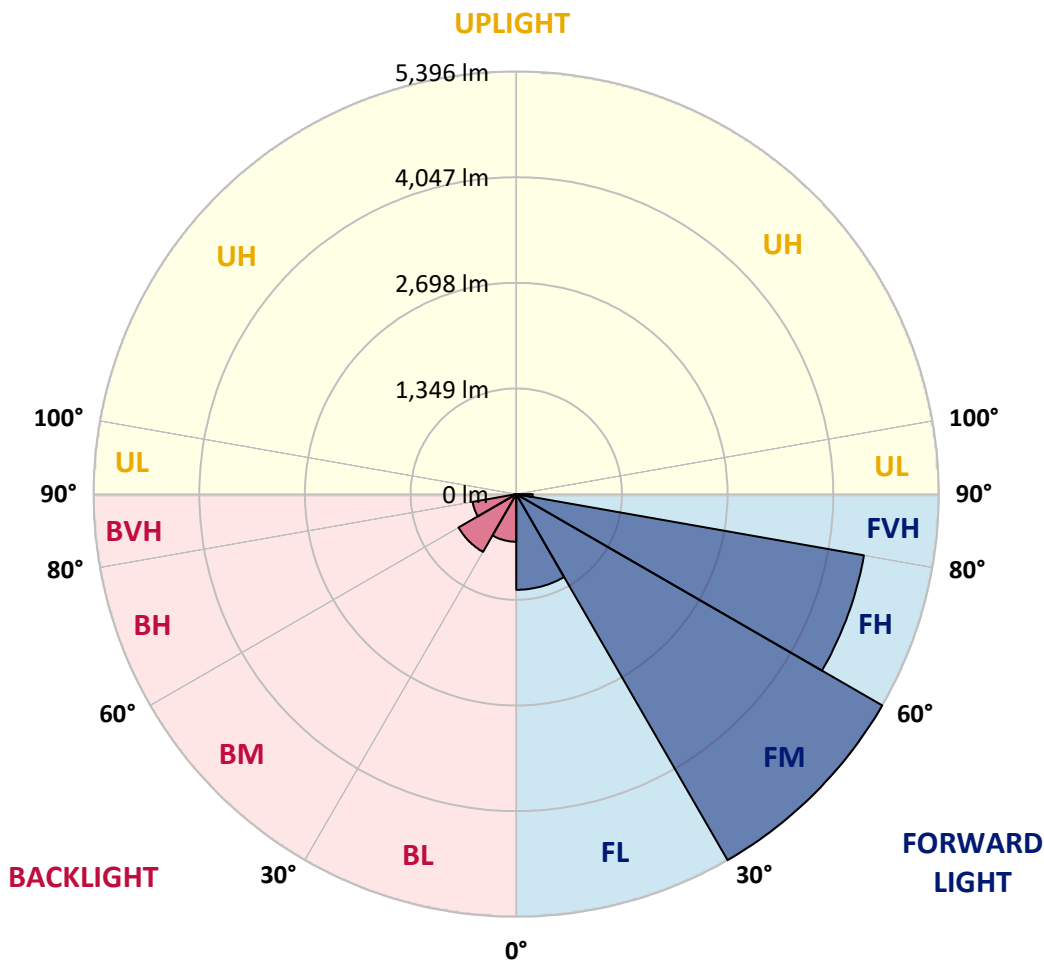
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.8	9.1			
FM (30°-60°)	5396.1	40.3			
FH (60°-80°)	4507.4	33.7			G2/5000
FVH (80°-90°)	211.1	1.6			G2/225
BL (0°-30°)	608.1	4.5	B2/1000		
BM (30°-60°)	851.1	6.4	B1/1000		
BH (60°-80°)	566.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.1	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-G2

Type III Short





REPORT NUMBER: P480457

CATALOG NUMBER: IFLD-S-SA3A-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0
2.5°	3781.5	3787.5	3787.5	3799.5	3758.9	3778.5	3775.4	3757.4	3763.4	3731.8	3700.1
5°	3674.5	3670.0	3694.1	3697.1	3728.7	3737.8	3745.3	3733.3	3736.3	3667.0	3636.8
7.5°	3400.3	3398.8	3439.5	3474.1	3540.4	3602.2	3642.9	3630.8	3647.4	3603.7	3532.9
10°	3074.9	3109.5	3151.7	3186.4	3308.4	3386.7	3492.2	3502.8	3566.0	3555.5	3427.4
12.5°	2830.8	2845.9	2877.5	2977.0	3088.4	3218.0	3368.7	3382.2	3444.0	3474.1	3362.6
15°	2630.5	2644.0	2684.7	2758.5	2883.6	3037.2	3228.6	3263.2	3386.7	3397.3	3278.3
17.5°	2484.3	2494.9	2522.0	2595.8	2698.2	2895.6	3076.4	3138.2	3300.9	3352.1	3190.9
20°	2427.1	2404.5	2419.5	2466.2	2568.7	2720.8	2954.4	3008.6	3216.5	3317.4	3108.0
22.5°	2401.5	2381.9	2390.9	2387.9	2469.3	2577.7	2823.3	2880.5	3136.7	3276.8	3034.2
25°	2421.0	2421.0	2412.0	2404.5	2413.5	2484.3	2681.7	2770.6	3029.7	3242.1	2958.9
27.5°	2526.5	2485.8	2490.3	2458.7	2449.7	2449.7	2618.4	2671.1	2995.0	3222.5	2897.1
30°	2594.3	2613.9	2615.4	2568.7	2522.0	2437.6	2559.6	2610.9	2966.4	3246.6	2861.0
32.5°	2767.6	2758.5	2732.9	2723.9	2654.6	2559.6	2588.3	2622.9	2949.8	3300.9	2871.5
35°	2940.8	2936.3	2937.8	2933.3	2861.0	2720.8	2665.1	2711.8	2980.0	3395.8	2907.7
37.5°	3120.1	3132.1	3183.4	3183.4	3106.5	2954.4	2880.5	2867.0	3090.0	3551.0	2993.5
40°	3299.4	3329.5	3394.3	3496.7	3388.3	3246.6	3127.6	3106.5	3222.5	3758.9	3199.9
42.5°	3471.1	3520.8	3648.9	3801.1	3764.9	3623.3	3465.1	3441.0	3495.2	4067.7	3487.7
45°	3691.1	3733.3	3935.1	4168.7	4218.4	4093.3	3908.0	3888.4	3885.4	4519.7	3883.9
47.5°	4025.5	4070.7	4272.6	4507.6	4661.3	4680.9	4473.0	4451.9	4379.6	5129.8	4463.9
50°	4444.4	4518.2	4688.4	4962.6	5185.6	5395.0	5336.2	5274.5	5132.9	5839.4	5199.1
52.5°	4750.2	4840.6	5071.1	5422.1	5815.3	6148.3	6359.2	6359.2	6033.8	6618.3	6083.5
55°	4831.5	4885.8	5176.5	5684.3	6357.7	7199.9	7641.3	7608.1	7106.4	7437.9	7112.5
57.5°	4507.6	4578.4	4931.0	5462.8	6642.4	8183.6	8914.3	8921.9	8278.5	8390.0	8127.9
60°	3615.7	3638.3	4054.2	4765.3	6368.2	8976.1	10652.9	10681.5	9611.9	9238.2	8644.6
62.5°	2499.4	2571.7	2885.1	3508.8	5276.0	8887.2	12329.7	12471.3	10680.0	9685.7	8726.0
65°	1645.2	1688.9	1856.1	2235.7	3673.0	7703.0	12851.0	13287.9	11496.6	9711.3	8385.5
67.5°	1193.2	1200.7	1250.4	1446.3	2207.1	5539.6	11960.6	12576.8	11802.4	9497.4	7587.0
70°	964.2	970.2	988.3	1113.3	1425.2	3466.6	9755.0	10720.7	10884.9	8483.4	6110.6
72.5°	783.4	790.9	813.5	931.1	1175.1	1928.4	7133.6	8310.2	8854.1	6276.3	4061.7
75°	616.2	622.2	676.4	792.5	1104.3	1324.3	4732.1	5884.6	5958.4	3668.5	1901.3
77.5°	421.8	432.4	498.7	671.9	1039.5	1158.5	2949.8	3769.4	3382.2	1435.8	653.8
80°	268.2	283.2	322.4	509.2	919.0	1105.8	1835.0	2250.8	1480.9	491.1	314.9
82.5°	158.2	173.3	212.4	329.9	721.6	1026.0	1292.6	1408.6	694.5	251.6	189.8
85°	87.4	97.9	128.1	198.9	423.3	911.5	1035.0	1010.9	397.7	134.1	119.0
87.5°	28.6	33.1	46.7	79.8	174.8	429.4	620.7	583.0	206.4	61.8	46.7
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: P480457
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0	3682.0
2.5°	3679.0	3674.5	3606.7	3555.5	3468.1	3395.8	3367.2	3328.0	3326.5	3297.9	3290.3
5°	3590.1	3543.4	3439.5	3340.0	3184.9	3080.9	2986.0	2919.7	2892.6	2833.8	2820.3
7.5°	3475.6	3413.9	3254.2	3067.4	2885.1	2722.4	2574.7	2427.1	2344.2	2315.6	2283.9
10°	3356.6	3248.1	3011.6	2802.2	2547.6	2297.5	2065.5	1857.6	1744.6	1664.7	1630.1
12.5°	3261.7	3117.1	2815.8	2502.4	2166.4	1832.0	1562.3	1343.9	1215.8	1155.5	1128.4
15°	3154.7	2963.4	2601.8	2205.6	1786.8	1407.1	1143.5	971.7	920.5	891.9	887.4
17.5°	3041.7	2820.3	2369.8	1913.3	1416.2	1059.1	888.9	819.6	797.0	784.9	778.9
20°	2936.3	2692.2	2131.8	1587.9	1108.8	849.7	769.9	733.7	732.2	738.2	736.7
22.5°	2787.1	2525.0	1896.8	1286.6	885.9	739.7	688.5	679.5	688.5	696.0	699.0
25°	2702.8	2387.9	1634.6	1021.4	732.2	656.9	640.3	637.3	650.8	659.9	658.4
27.5°	2615.4	2246.3	1390.6	818.1	641.8	598.1	595.1	598.1	611.7	625.2	623.7
30°	2547.6	2133.3	1161.6	684.0	572.5	555.9	552.9	555.9	563.5	565.0	565.0
32.5°	2491.9	1999.2	967.2	593.6	530.3	516.8	519.8	518.3	519.8	521.3	522.8
35°	2458.7	1919.4	807.5	537.8	495.7	485.1	483.6	479.1	480.6	482.1	480.6
37.5°	2529.5	1880.2	681.0	498.7	471.6	462.5	459.5	456.5	452.0	452.0	452.0
40°	2636.5	1859.1	604.1	473.1	453.5	442.9	433.9	430.9	430.9	432.4	433.9
42.5°	2848.9	1893.7	551.4	453.5	430.9	418.8	409.8	411.3	415.8	420.3	417.3
45°	3156.2	1999.2	527.3	438.4	417.3	400.7	394.7	393.2	397.7	405.3	411.3
47.5°	3558.5	2163.4	518.3	424.9	408.3	385.7	378.1	382.7	388.7	399.2	394.7
50°	4216.9	2532.5	525.8	412.8	394.7	378.1	369.1	364.6	369.1	376.6	379.7
52.5°	5077.1	3202.9	554.4	406.8	385.7	372.1	357.1	349.5	354.0	360.1	360.1
55°	6106.1	4118.9	634.3	399.2	370.6	363.1	346.5	331.4	334.5	334.5	332.9
57.5°	7013.0	4810.4	729.2	388.7	361.6	351.0	329.9	311.9	308.8	310.4	311.9
60°	7419.8	4994.2	774.4	385.7	361.6	336.0	307.3	289.3	284.7	281.7	281.7
62.5°	7349.0	4676.4	682.5	372.1	370.6	323.9	286.2	266.7	260.6	254.6	256.1
65°	6921.1	4222.9	537.8	354.0	372.1	316.4	265.2	245.6	235.0	227.5	226.0
67.5°	6139.2	3605.2	426.4	340.5	357.1	302.8	247.1	224.5	215.4	207.9	204.9
70°	4802.9	2826.3	370.6	322.4	320.9	269.7	226.0	206.4	192.8	183.8	183.8
72.5°	3114.1	1786.8	317.9	286.2	277.2	226.0	195.9	183.8	173.3	165.7	165.7
75°	1410.1	830.1	256.1	239.5	226.0	180.8	165.7	159.7	150.7	143.1	143.1
77.5°	506.2	354.0	191.3	188.3	168.7	140.1	134.1	129.6	123.5	116.0	116.0
80°	283.2	224.5	143.1	137.1	117.5	104.0	96.4	96.4	93.4	88.9	87.4
82.5°	179.3	146.1	105.5	91.9	76.8	69.3	66.3	64.8	63.3	57.2	55.7
85°	113.0	99.4	69.3	54.2	45.2	34.7	33.1	31.6	28.6	25.6	25.6
87.5°	51.2	57.2	27.1	16.6	12.1	7.5	4.5	1.5	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)