

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: P480415

Luminaire Tested: **IFLD-S-SA2C-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480415
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

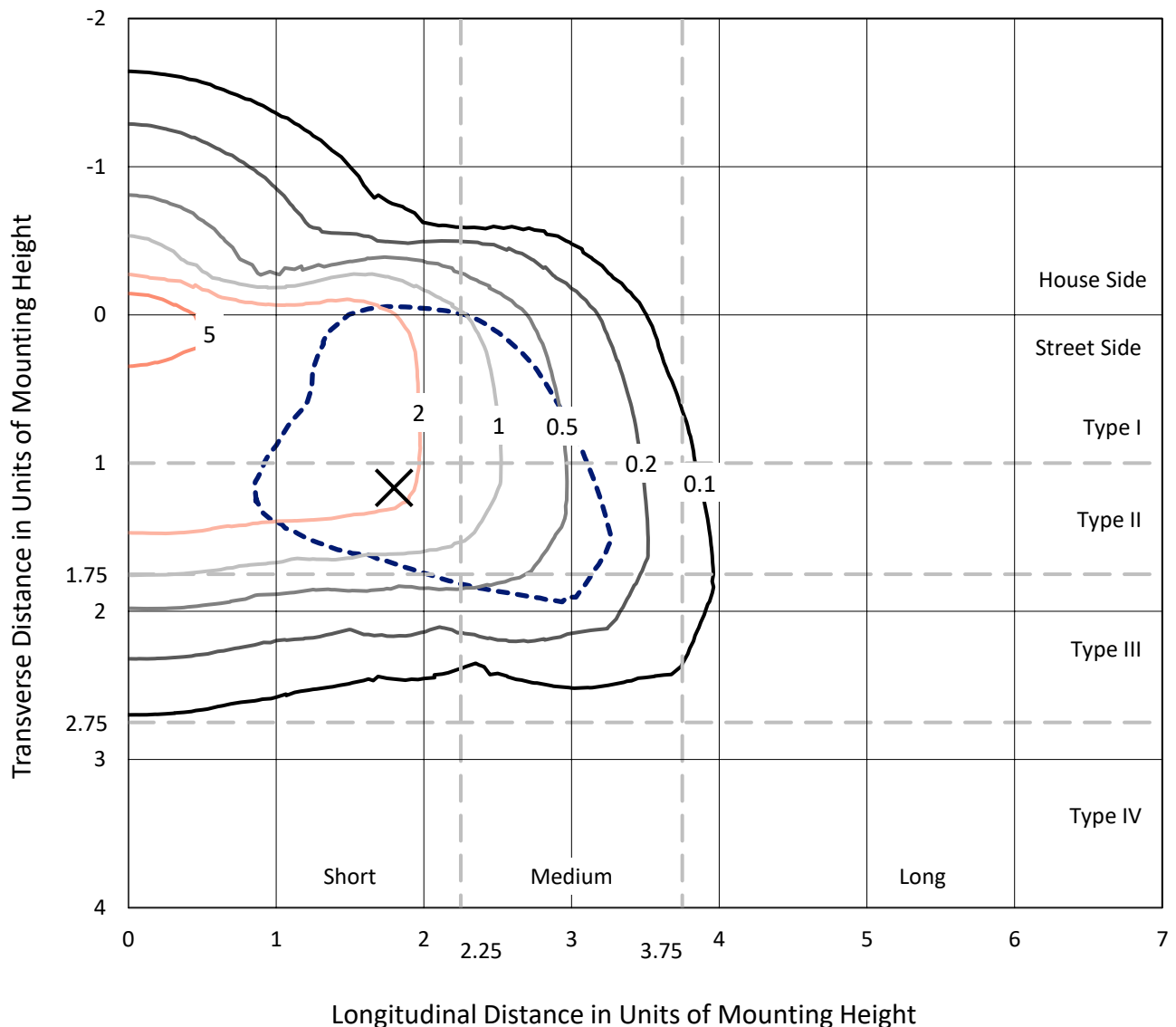
Lumens per Lamp: N/A
Luminaire Lumens: 12770.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

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Iso-Footcandle Lines of Horizontal Illumination

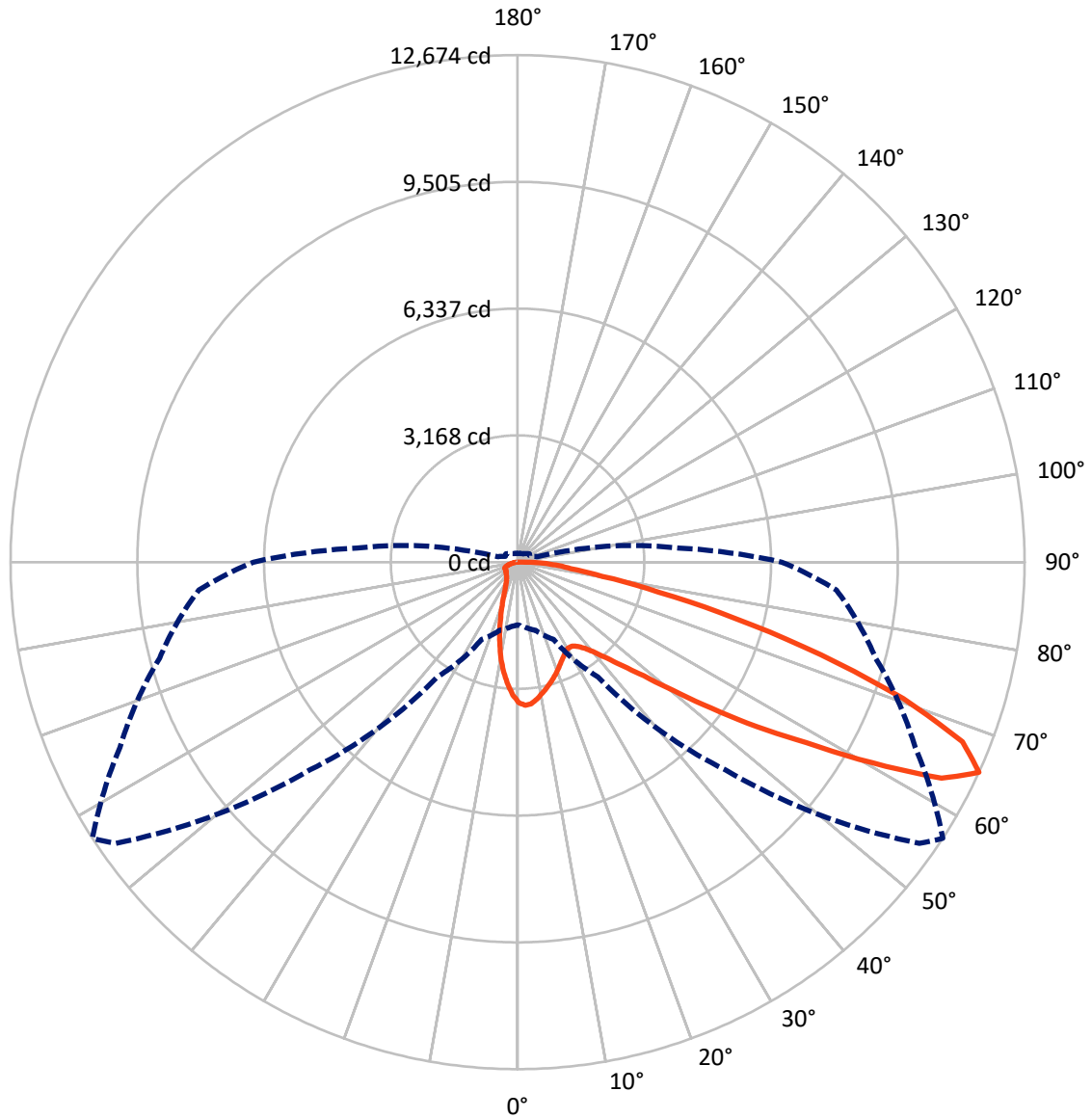
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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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	1958.5	0.0	1958.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10812.4	0.0	10812.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	12770.9	0.0	12770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	2.3
10°-20°	632.9	5.0
20°-30°	818.3	6.4
30°-40°	1101.2	8.6
40°-50°	1755.9	13.7
50°-60°	3101.3	24.3
60°-70°	3411.9	26.7
70°-80°	1427.2	11.2
80°-90°	228.1	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°	12770.9	100.0
0°-180°	12770.9	100.0

Coefficient of Utilization



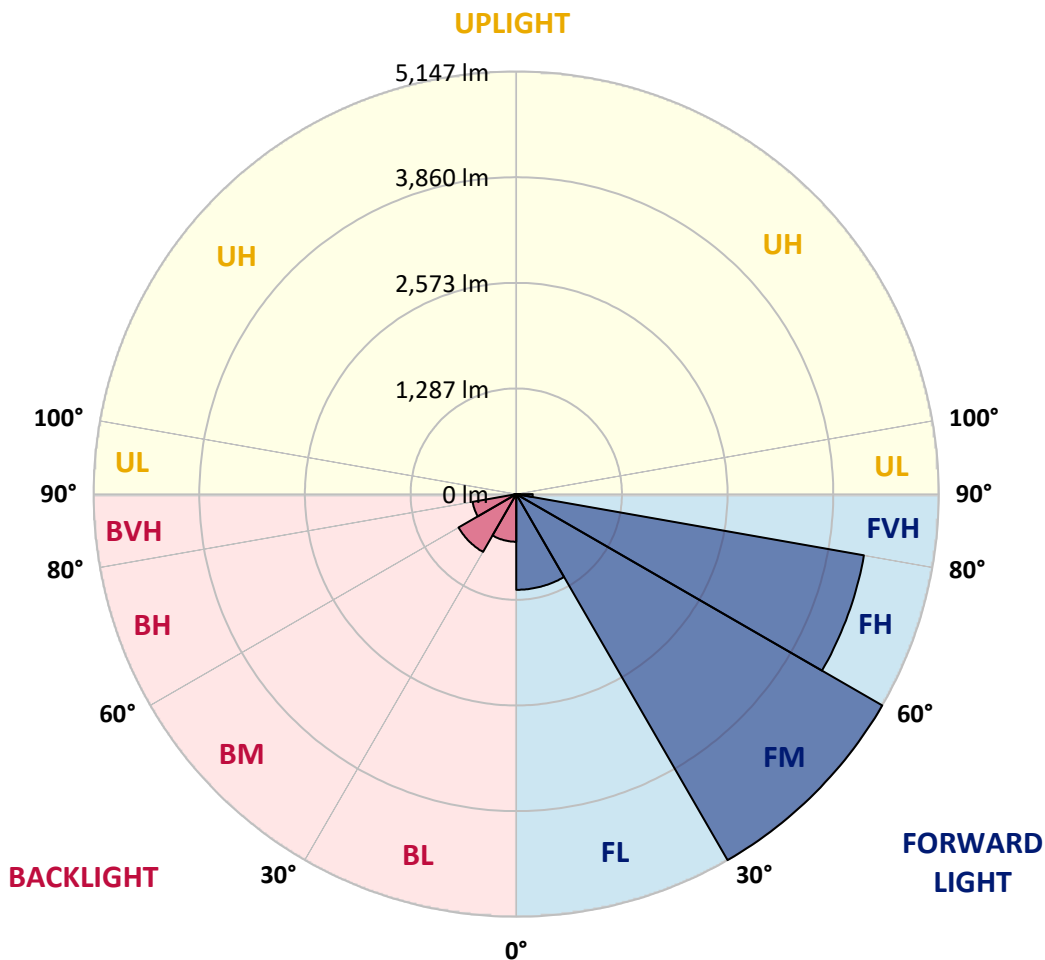
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.3	9.1			
FM (30°-60°)	5146.7	40.3			
FH (60°-80°)	4299.1	33.7			G2/5000
FVH (80°-90°)	201.3	1.6			G2/225
BL (0°-30°)	580.0	4.5	B2/1000		
BM (30°-60°)	811.7	6.4	B1/1000		
BH (60°-80°)	540.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	26.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8
2.5°	3606.7	3612.4	3612.4	3623.9	3585.1	3603.8	3600.9	3583.7	3589.4	3559.2	3529.1
5°	3504.6	3500.3	3523.3	3526.2	3556.4	3565.0	3572.2	3560.7	3563.6	3497.5	3468.7
7.5°	3243.1	3241.7	3280.5	3313.5	3376.8	3435.7	3474.5	3463.0	3478.8	3437.1	3369.6
10°	2932.7	2965.8	3006.0	3039.1	3155.5	3230.2	3330.8	3340.8	3401.2	3391.1	3269.0
12.5°	2700.0	2714.3	2744.5	2839.3	2945.7	3069.3	3212.9	3225.9	3284.8	3313.5	3207.2
15°	2508.9	2521.8	2560.6	2631.0	2750.3	2896.8	3079.3	3112.4	3230.2	3240.2	3126.7
17.5°	2369.5	2379.5	2405.4	2475.8	2573.5	2761.8	2934.2	2993.1	3148.3	3197.1	3043.4
20°	2314.9	2293.3	2307.7	2352.2	2449.9	2595.1	2817.8	2869.5	3067.8	3164.1	2964.4
22.5°	2290.4	2271.8	2280.4	2277.5	2355.1	2458.6	2692.8	2747.4	2991.7	3125.3	2893.9
25°	2309.1	2309.1	2300.5	2293.3	2301.9	2369.5	2557.7	2642.5	2889.6	3092.2	2822.1
27.5°	2409.7	2370.9	2375.2	2345.0	2336.4	2336.4	2497.4	2547.7	2856.6	3073.6	2763.2
30°	2474.4	2493.0	2494.5	2449.9	2405.4	2324.9	2441.3	2490.2	2829.3	3096.6	2728.7
32.5°	2639.6	2631.0	2606.6	2597.9	2531.8	2441.3	2468.6	2501.7	2813.5	3148.3	2738.8
35°	2804.9	2800.5	2802.0	2797.7	2728.7	2595.1	2541.9	2586.4	2842.2	3238.8	2773.2
37.5°	2975.9	2987.3	3036.2	3036.2	2962.9	2817.8	2747.4	2734.5	2947.1	3386.8	2855.2
40°	3146.8	3175.6	3237.4	3335.1	3231.6	3096.6	2983.0	2962.9	3073.6	3585.1	3052.0
42.5°	3310.7	3358.1	3480.2	3625.3	3590.9	3455.8	3304.9	3281.9	3333.6	3879.7	3326.5
45°	3520.4	3560.7	3753.2	3975.9	4023.4	3904.1	3727.4	3708.7	3705.8	4310.7	3704.4
47.5°	3839.4	3882.5	4075.1	4299.3	4445.8	4464.5	4266.2	4246.1	4177.1	4892.7	4257.6
50°	4238.9	4309.3	4471.7	4733.2	4945.9	5145.6	5089.6	5030.6	4895.6	5569.5	4958.8
52.5°	4530.6	4616.8	4836.7	5171.5	5546.5	5864.1	6065.2	6065.2	5754.8	6312.4	5802.3
55°	4608.2	4659.9	4937.2	5421.5	6063.8	6867.0	7288.0	7256.4	6777.9	7094.1	6783.7
57.5°	4299.3	4366.8	4703.0	5210.3	6335.4	7805.3	8502.2	8509.4	7895.9	8002.2	7752.2
60°	3448.6	3470.2	3866.7	4545.0	6073.8	8561.1	10160.4	10187.7	9167.5	8811.2	8245.0
62.5°	2383.8	2452.8	2751.7	3346.6	5032.1	8476.4	11759.7	11894.8	10186.3	9237.9	8322.6
65°	1569.1	1610.8	1770.3	2132.4	3503.2	7346.9	12256.9	12673.6	10965.1	9262.4	7997.9
67.5°	1138.0	1145.2	1192.6	1379.4	2105.1	5283.5	11407.7	11995.4	11256.8	9058.3	7236.3
70°	919.6	925.4	942.6	1061.9	1359.3	3306.3	9304.0	10225.1	10381.7	8091.3	5828.1
72.5°	747.2	754.4	775.9	888.0	1120.8	1839.3	6803.8	7926.0	8444.8	5986.2	3873.9
75°	587.7	593.4	645.2	755.8	1053.3	1263.0	4513.4	5612.6	5683.0	3498.9	1813.4
77.5°	402.3	412.4	475.6	640.9	991.5	1105.0	2813.5	3595.2	3225.9	1369.4	623.6
80°	255.8	270.1	307.5	485.7	876.5	1054.7	1750.2	2146.8	1412.5	468.4	300.3
82.5°	150.9	165.2	202.6	314.7	688.3	978.5	1232.9	1343.5	662.4	240.0	181.1
85°	83.3	93.4	122.1	189.7	403.8	869.3	987.2	964.2	379.3	127.9	113.5
87.5°	27.3	31.6	44.5	76.2	166.7	409.5	592.0	556.1	196.9	58.9	44.5
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°	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8
2.5°	3508.9	3504.6	3440.0	3391.1	3307.8	3238.8	3211.5	3174.1	3172.7	3145.4	3138.2
5°	3424.2	3379.6	3280.5	3185.6	3037.6	2938.5	2848.0	2784.7	2758.9	2702.8	2689.9
7.5°	3315.0	3256.1	3103.7	2925.6	2751.7	2596.5	2455.7	2314.9	2235.8	2208.5	2178.4
10°	3201.4	3098.0	2872.4	2672.7	2429.8	2191.3	1970.0	1771.7	1663.9	1587.8	1554.7
12.5°	3110.9	2973.0	2685.6	2386.7	2066.3	1747.3	1490.1	1281.7	1159.6	1102.1	1076.2
15°	3008.9	2826.4	2481.6	2103.6	1704.2	1342.1	1090.6	926.8	878.0	850.7	846.3
17.5°	2901.1	2689.9	2260.3	1824.9	1350.7	1010.2	847.8	781.7	760.1	748.6	742.9
20°	2800.5	2567.8	2033.2	1514.5	1057.6	810.4	734.3	699.8	698.3	704.1	702.7
22.5°	2658.3	2408.3	1809.1	1227.1	844.9	705.5	656.7	648.0	656.7	663.9	666.7
25°	2577.8	2277.5	1559.1	974.2	698.3	626.5	610.7	607.8	620.7	629.4	627.9
27.5°	2494.5	2142.4	1326.3	780.2	612.1	570.5	567.6	570.5	583.4	596.3	594.9
30°	2429.8	2034.7	1107.9	652.4	546.0	530.2	527.3	530.2	537.4	538.8	538.8
32.5°	2376.7	1906.8	922.5	566.1	505.8	492.9	495.7	494.3	495.7	497.2	498.6
35°	2345.0	1830.6	770.2	513.0	472.7	462.7	461.2	456.9	458.4	459.8	458.4
37.5°	2412.6	1793.3	649.5	475.6	449.8	441.1	438.3	435.4	431.1	431.1	431.1
40°	2514.6	1773.2	576.2	451.2	432.5	422.5	413.8	411.0	411.0	412.4	413.8
42.5°	2717.2	1806.2	525.9	432.5	411.0	399.5	390.8	392.3	396.6	400.9	398.0
45°	3010.3	1906.8	502.9	418.1	398.0	382.2	376.5	375.0	379.3	386.5	392.3
47.5°	3394.0	2063.4	494.3	405.2	389.4	367.9	360.7	365.0	370.7	380.8	376.5
50°	4021.9	2415.5	501.5	393.7	376.5	360.7	352.0	347.7	352.0	359.2	362.1
52.5°	4842.4	3054.9	528.8	388.0	367.9	354.9	340.5	333.4	337.7	343.4	343.4
55°	5823.8	3928.5	604.9	380.8	353.5	346.3	330.5	316.1	319.0	319.0	317.6
57.5°	6688.8	4588.1	695.5	370.7	344.9	334.8	314.7	297.4	294.6	296.0	297.4
60°	7076.8	4763.4	738.6	367.9	344.9	320.4	293.1	275.9	271.6	268.7	268.7
62.5°	7009.3	4460.2	650.9	354.9	353.5	308.9	273.0	254.3	248.6	242.8	244.3
65°	6601.2	4027.7	513.0	337.7	354.9	301.8	252.9	234.2	224.2	217.0	215.5
67.5°	5855.4	3438.5	406.6	324.7	340.5	288.8	235.7	214.1	205.5	198.3	195.4
70°	4580.9	2695.7	353.5	307.5	306.1	257.2	215.5	196.9	183.9	175.3	175.3
72.5°	2970.1	1704.2	303.2	273.0	264.4	215.5	186.8	175.3	165.2	158.1	158.1
75°	1345.0	791.7	244.3	228.5	215.5	172.4	158.1	152.3	143.7	136.5	136.5
77.5°	482.8	337.7	182.5	179.6	160.9	133.6	127.9	123.6	117.8	110.6	110.6
80°	270.1	214.1	136.5	130.8	112.1	99.1	92.0	92.0	89.1	84.8	83.3
82.5°	171.0	139.4	100.6	87.7	73.3	66.1	63.2	61.8	60.4	54.6	53.2
85°	107.8	94.8	66.1	51.7	43.1	33.0	31.6	30.2	27.3	24.4	24.4
87.5°	48.9	54.6	25.9	15.8	11.5	7.2	4.3	1.4	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)