

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: P476747

Luminaire Tested: **IFLD-S-SA2A-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

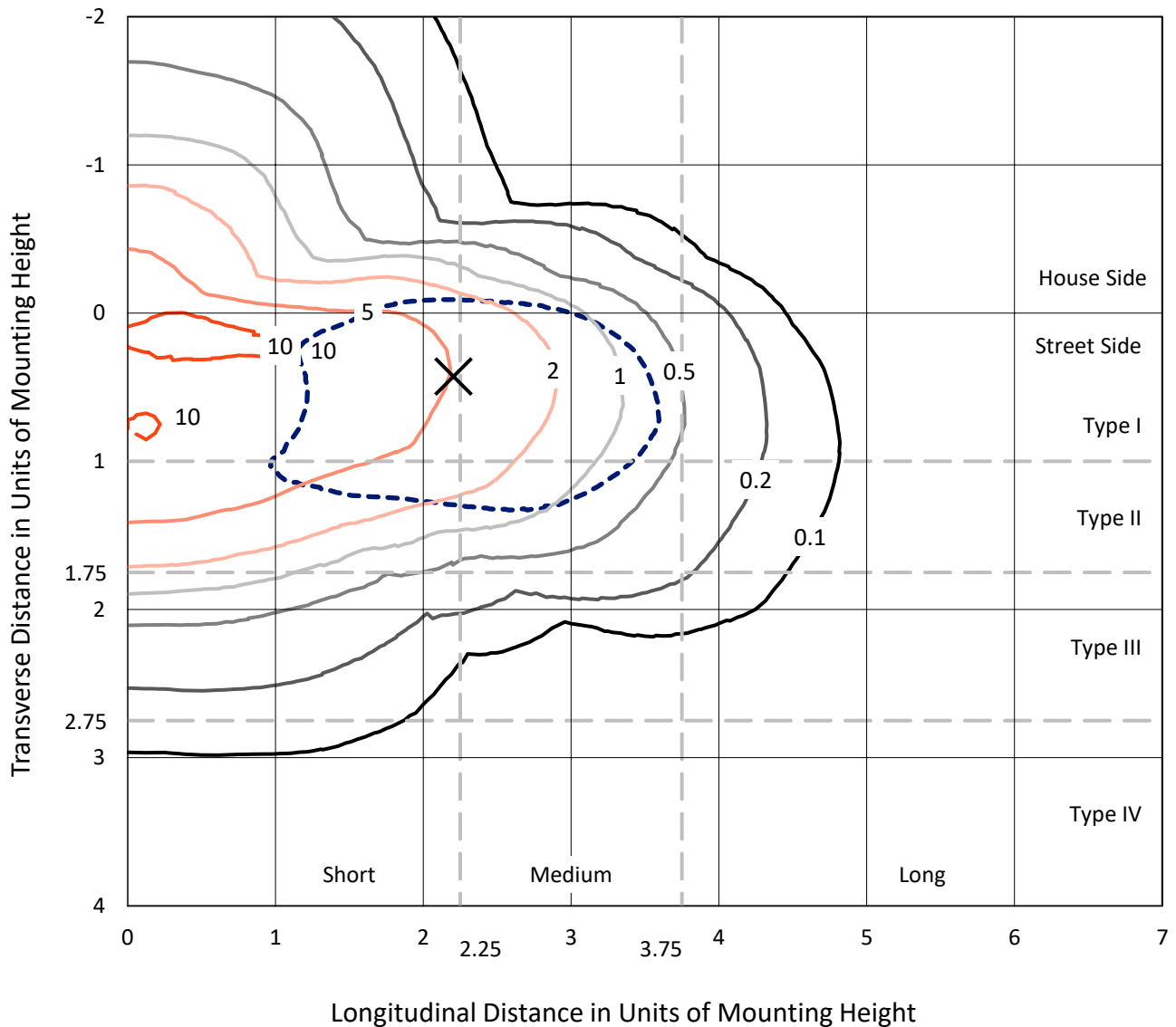
Lumens per Lamp: N/A
Luminaire Lumens: 7327.1 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

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Iso-Footcandle Lines of Horizontal Illumination

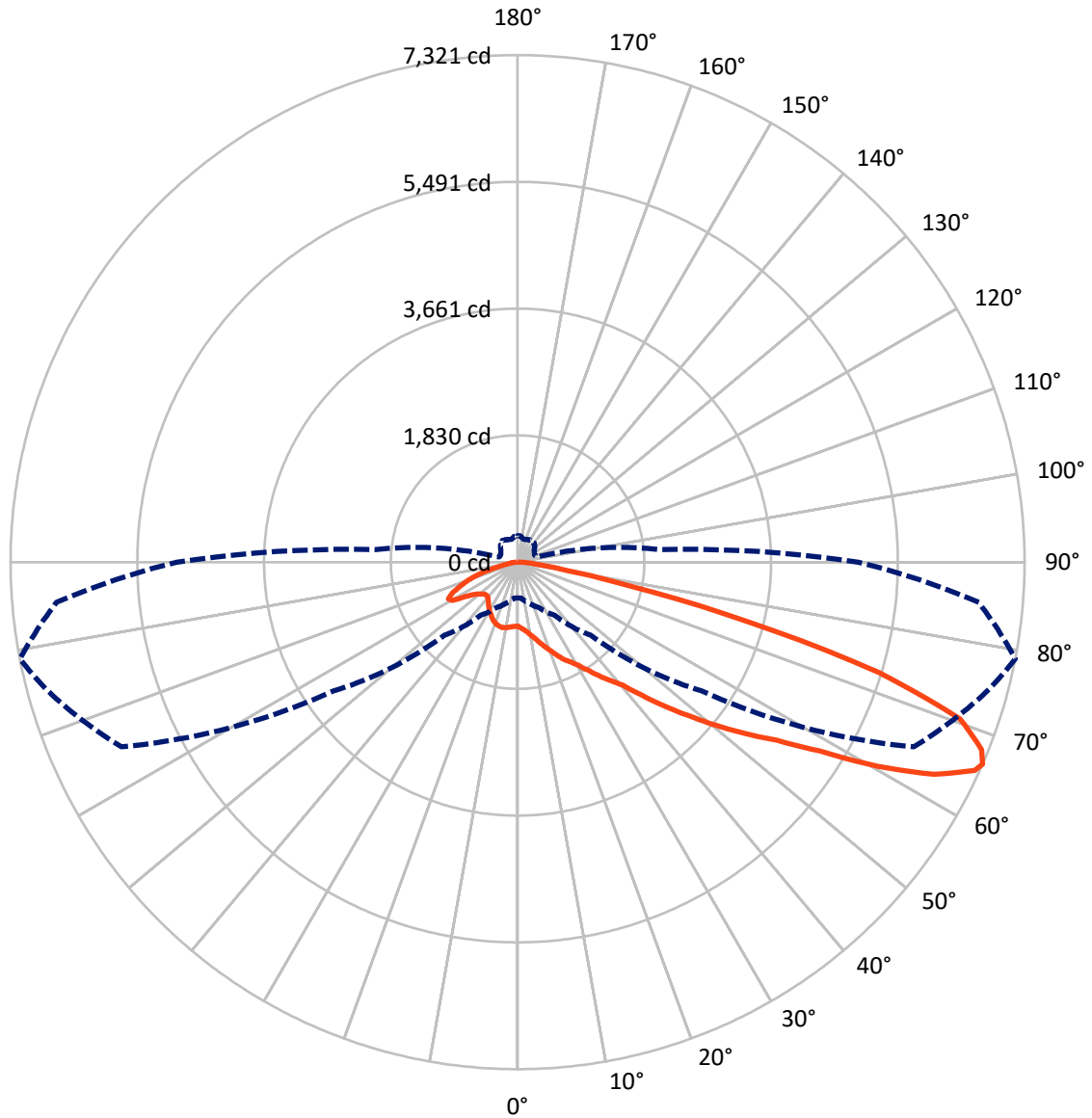
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.6	0.0	1479.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	5847.5	0.0	5847.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	7327.1	0.0	7327.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.2
10°-20°	280.9	3.8
20°-30°	482.2	6.6
30°-40°	744.9	10.2
40°-50°	1193.2	16.3
50°-60°	1781.5	24.3
60°-70°	1830.5	25.0
70°-80°	811.4	11.1
80°-90°	111.3	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°	7327.1	100.0
0°-180°	7327.1	100.0

Coefficient of Utilization



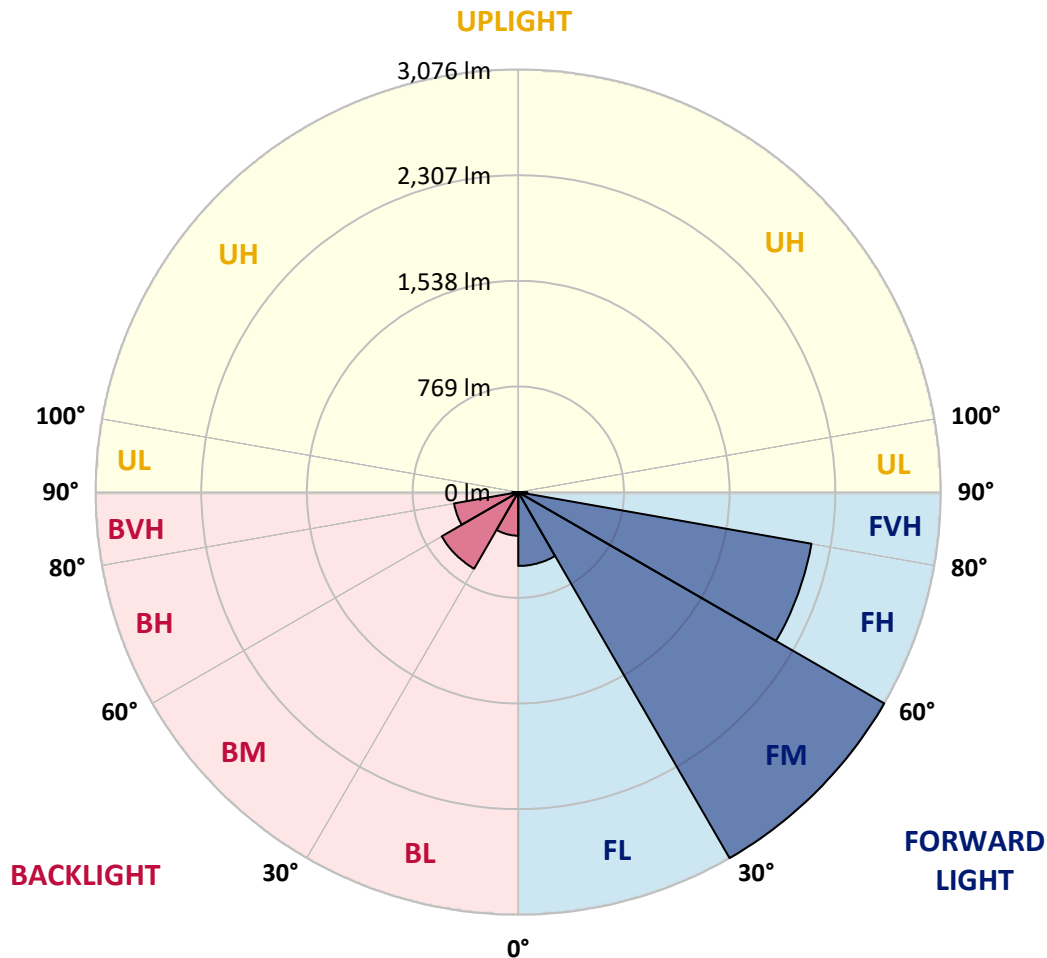
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.1	7.3			
FM (30°-60°)	3076.4	42.0			
FH (60°-80°)	2167.2	29.6			G2/5000
FVH (80°-90°)	66.8	0.9			G1/100
BL (0°-30°)	317.0	4.3	B1/500		
BM (30°-60°)	643.3	8.8	B1/1000		
BH (60°-80°)	474.8	6.5	B1/500		G1/500
BVH (80°-90°)	44.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	984.0	984.8	984.8	981.6	982.4	984.8	976.0	956.6	956.6	953.4	947.8
5°	1044.5	1040.5	1034.8	1035.6	1032.4	1032.4	1022.7	1004.2	988.1	981.6	964.7
7.5°	1052.5	1056.6	1055.8	1065.4	1070.3	1070.3	1075.1	1059.8	1035.6	1020.3	1003.4
10°	1068.7	1058.2	1057.4	1079.9	1087.2	1104.1	1123.5	1115.4	1095.3	1073.5	1050.9
12.5°	1078.3	1084.8	1084.8	1096.1	1113.0	1138.0	1171.8	1187.1	1155.7	1133.1	1098.5
15°	1092.8	1084.0	1109.8	1119.4	1151.7	1169.4	1217.8	1257.2	1236.3	1208.9	1154.1
17.5°	1099.3	1093.6	1108.2	1125.9	1180.7	1207.3	1266.1	1320.9	1303.2	1285.5	1229.0
20°	1132.3	1131.5	1138.0	1152.5	1192.0	1244.4	1317.7	1393.4	1399.9	1367.7	1291.1
22.5°	1212.9	1202.4	1202.4	1196.8	1213.7	1267.7	1366.9	1471.6	1500.6	1462.8	1361.2
25°	1287.1	1301.6	1292.7	1266.9	1260.5	1288.7	1402.3	1554.6	1593.3	1557.9	1456.3
27.5°	1382.2	1387.0	1402.3	1367.7	1323.3	1332.2	1441.0	1601.4	1681.2	1633.6	1510.3
30°	1519.2	1510.3	1507.1	1468.4	1410.4	1398.3	1485.3	1669.9	1796.4	1729.5	1574.0
32.5°	1611.9	1633.6	1632.8	1579.6	1509.5	1482.9	1540.1	1734.4	1919.7	1857.7	1691.6
35°	1795.6	1818.2	1800.4	1722.3	1640.1	1586.9	1619.1	1818.2	2060.8	2012.4	1791.6
37.5°	2030.1	2083.3	2045.4	1901.2	1785.1	1727.1	1728.7	1909.2	2205.0	2165.5	1898.8
40°	2192.1	2263.9	2211.5	2076.1	1952.8	1898.0	1876.2	2017.2	2377.5	2335.6	2066.4
42.5°	2392.8	2452.4	2425.0	2291.3	2147.0	2100.2	2056.7	2197.8	2641.0	2621.7	2281.6
45°	2612.0	2640.2	2631.4	2546.7	2386.4	2370.2	2274.3	2435.5	2951.3	2959.4	2550.8
47.5°	2815.9	2831.2	2848.1	2786.9	2687.0	2700.7	2525.0	2690.2	3252.7	3305.9	2850.6
50°	2868.3	2920.7	2960.2	3001.3	3023.0	3115.7	2801.4	3002.9	3599.3	3702.4	3184.2
52.5°	2815.1	2811.1	2931.2	3060.1	3277.7	3471.9	3177.8	3391.3	3905.5	4109.4	3489.7
55°	2573.3	2565.3	2758.7	2929.5	3354.3	3670.2	3715.3	3908.8	4275.4	4540.6	3903.1
57.5°	2150.2	2100.2	2311.4	2591.9	3188.3	3692.0	4255.3	4676.8	4844.4	5146.7	4534.2
60°	1445.0	1424.1	1626.4	1960.8	2588.6	3383.3	4578.5	5638.3	5646.3	5986.4	5513.4
62.5°	889.7	893.8	1023.5	1274.2	1812.5	2682.1	4439.1	6406.3	6407.9	6748.8	6319.3
65°	581.9	584.3	689.1	827.7	1132.3	1819.0	3671.0	6466.8	6937.4	7254.2	6688.4
66°	518.2	519.0	609.3	722.1	938.1	1488.5	3242.2	6309.6	7056.7	7321.1	6683.6
67.5°	436.8	447.3	519.8	606.9	731.8	1069.5	2572.5	5855.1	6995.5	7227.6	6532.0
70°	341.7	347.4	404.6	493.2	548.8	619.0	1528.8	4772.7	6403.1	6779.5	5980.8
72.5°	274.0	278.9	322.4	400.5	445.7	407.8	832.5	3463.1	5058.0	5459.4	4704.2
75°	231.3	232.1	253.1	315.1	366.7	306.3	443.3	2222.7	3245.5	3432.4	2882.0
77.5°	187.0	190.2	204.7	240.2	295.0	241.0	264.3	1245.2	1629.6	1643.3	1332.2
80°	152.3	153.9	162.8	174.9	224.9	178.1	178.9	607.7	698.7	682.6	541.6
82.5°	120.1	121.7	132.2	129.8	165.2	127.3	111.2	292.6	321.6	315.1	249.0
85°	67.7	67.7	104.0	104.0	104.8	80.6	67.7	137.8	170.1	158.8	116.9
87.5°	21.8	22.6	31.4	33.0	52.4	36.3	33.0	51.6	80.6	70.9	41.9
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°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	944.5	931.7	926.0	907.5	902.6	890.6	884.9	877.7	875.2	864.8	874.4
5°	951.8	947.8	925.2	901.8	884.1	876.0	864.0	847.8	846.2	831.7	830.1
7.5°	982.4	968.7	929.2	904.3	868.8	848.6	822.0	814.0	803.5	798.7	809.2
10°	1030.0	995.3	936.5	873.6	830.1	805.9	786.6	780.9	781.8	778.5	773.7
12.5°	1063.8	1030.8	924.4	847.8	791.4	768.0	766.4	772.1	780.9	776.9	782.6
15°	1112.2	1050.1	915.5	805.1	760.0	753.5	752.7	769.7	768.9	768.9	768.0
17.5°	1157.3	1069.5	883.3	768.0	726.9	731.8	737.4	736.6	744.7	747.9	753.5
20°	1214.5	1092.0	838.2	731.0	702.0	700.4	699.5	700.4	708.4	713.2	709.2
22.5°	1264.5	1096.9	800.3	695.5	672.1	665.7	655.2	665.7	661.7	663.3	668.1
25°	1308.0	1097.7	746.3	668.9	642.3	627.8	619.8	619.0	611.7	610.9	610.9
27.5°	1344.3	1070.3	698.7	631.8	606.9	593.2	592.4	583.5	565.0	552.9	554.5
30°	1372.5	1049.3	665.7	599.6	575.4	573.0	565.8	545.6	521.4	506.1	506.1
32.5°	1422.5	1007.4	620.6	566.6	554.5	551.3	534.3	516.6	494.0	479.5	477.1
35°	1459.5	968.7	590.7	538.4	532.7	526.3	511.8	492.4	486.0	482.8	485.2
37.5°	1501.4	925.2	554.5	514.2	519.8	507.7	490.8	481.9	504.5	498.9	501.3
40°	1568.3	894.6	519.0	499.7	505.3	491.6	469.9	466.6	494.8	474.7	469.9
42.5°	1690.8	893.8	497.3	477.9	481.9	471.5	452.1	450.5	461.8	437.6	430.4
45°	1843.2	922.0	481.1	461.8	458.6	457.0	450.5	443.3	433.6	402.2	394.1
47.5°	2025.3	967.9	477.9	437.6	441.6	455.3	447.3	428.8	403.8	383.6	379.6
50°	2246.1	1063.0	469.9	419.9	427.1	448.9	442.5	416.7	394.1	381.2	378.8
52.5°	2490.3	1183.1	459.4	392.5	408.6	443.3	446.5	422.3	389.3	378.0	376.4
55°	2778.0	1360.4	447.3	362.7	386.8	437.6	446.5	406.2	382.8	382.8	381.2
57.5°	3346.2	1679.6	422.3	335.3	367.5	427.1	433.6	407.0	383.6	383.6	380.4
60°	4179.5	2177.6	374.8	314.3	349.0	412.6	423.9	394.9	374.8	379.6	378.8
62.5°	4831.5	2329.1	334.5	294.2	330.4	386.0	411.0	382.0	364.3	382.0	383.6
65°	4971.0	2176.0	293.4	272.4	304.6	360.2	392.5	363.5	349.0	383.6	385.2
66°	4921.0	2056.7	278.9	266.0	293.4	347.4	381.2	357.0	340.9	382.0	382.8
67.5°	4698.6	1877.8	262.7	252.3	278.0	328.8	368.3	348.2	328.0	377.2	369.9
70°	4215.0	1592.5	235.3	228.1	256.3	298.2	338.5	325.6	307.9	347.4	334.5
72.5°	3246.3	1272.6	206.3	207.1	231.3	266.8	308.7	299.8	284.5	304.6	296.6
75°	1976.9	813.2	179.7	181.3	201.5	236.9	280.5	274.0	255.5	266.8	262.7
77.5°	876.0	403.0	151.5	154.7	170.9	208.7	244.2	233.7	214.4	216.8	215.2
80°	340.1	191.0	123.3	127.3	137.8	166.8	202.3	192.6	175.7	172.5	170.9
82.5°	163.6	106.4	95.1	96.7	100.7	133.0	174.1	162.0	139.4	124.9	124.9
85°	82.2	66.1	66.9	61.3	66.9	90.3	117.7	98.3	81.4	72.5	74.1
87.5°	33.0	33.0	33.0	28.2	29.8	42.7	54.8	37.1	33.8	20.1	20.1
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)