

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: P476520

Luminaire Tested: **IFLD-S-SA3C-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476520
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

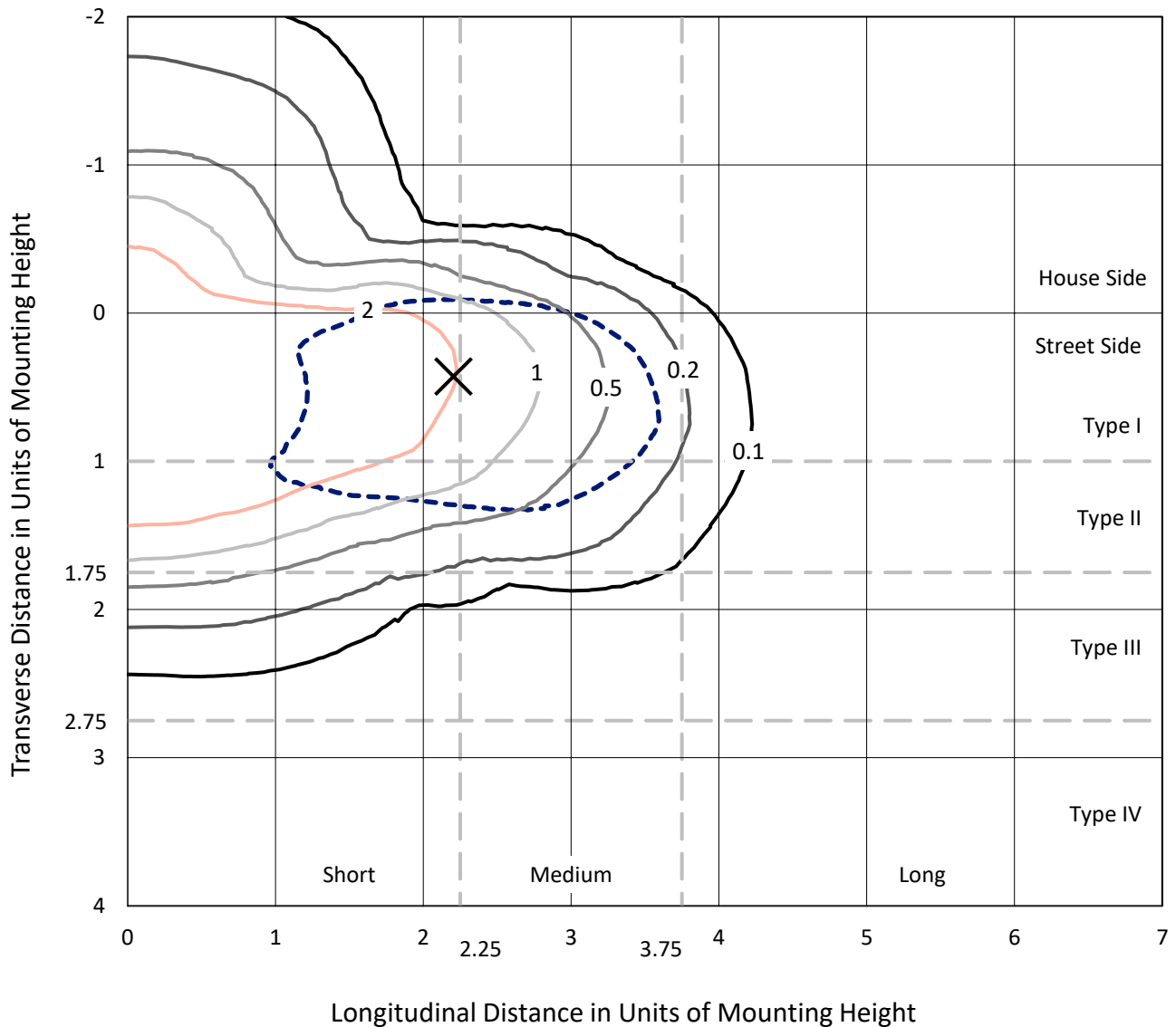
Lumens per Lamp: N/A
Luminaire Lumens: 19265 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

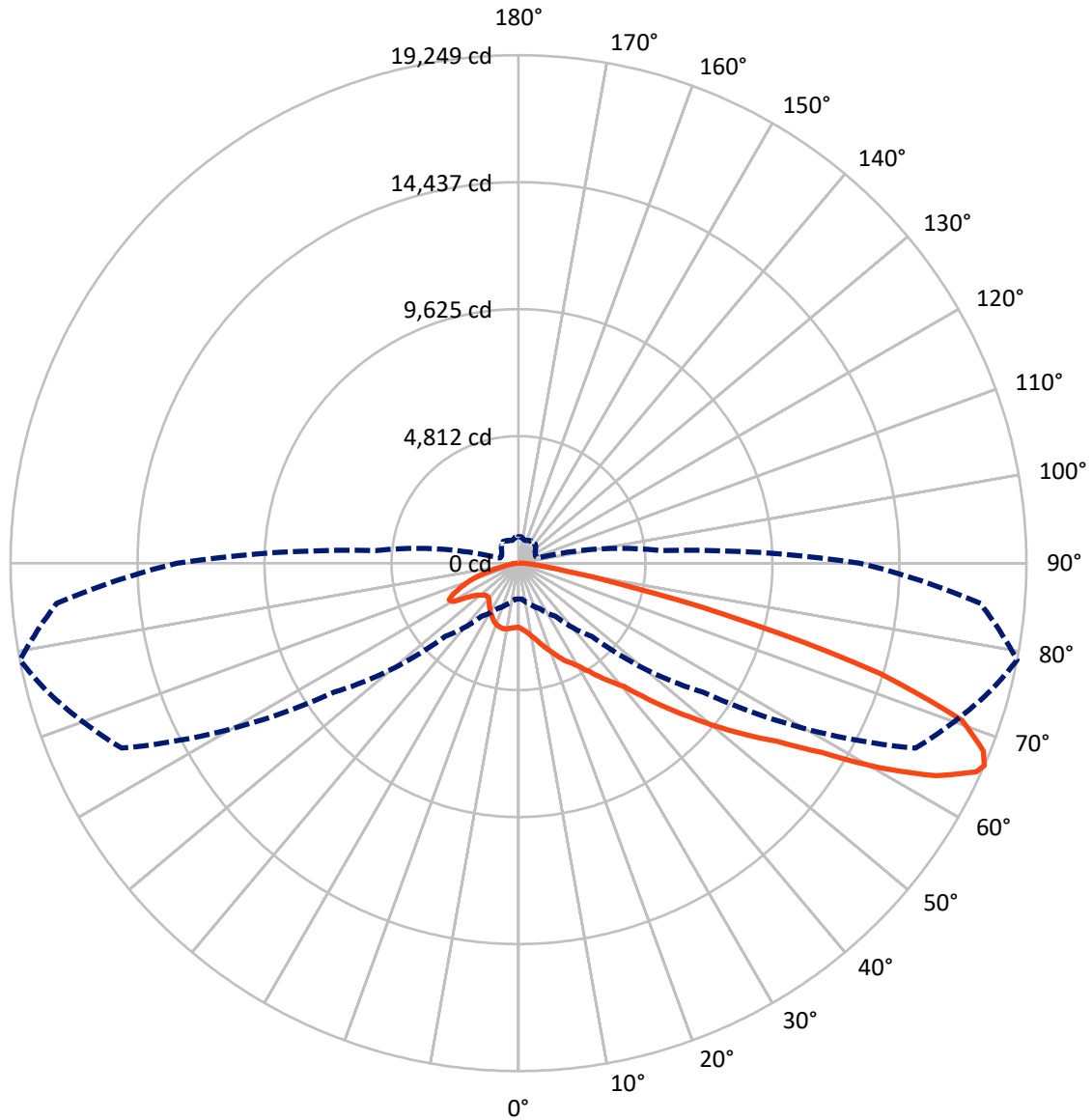
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	3890.3	0.0	3890.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15374.7	0.0	15374.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	19265.0	0.0	19265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	1.2
10°-20°	738.6	3.8
20°-30°	1267.9	6.6
30°-40°	1958.6	10.2
40°-50°	3137.3	16.3
50°-60°	4684.2	24.3
60°-70°	4813.0	25.0
70°-80°	2133.5	11.1
80°-90°	292.7	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°	19265.0	100.0
0°-180°	19265.0	100.0

Coefficient of Utilization



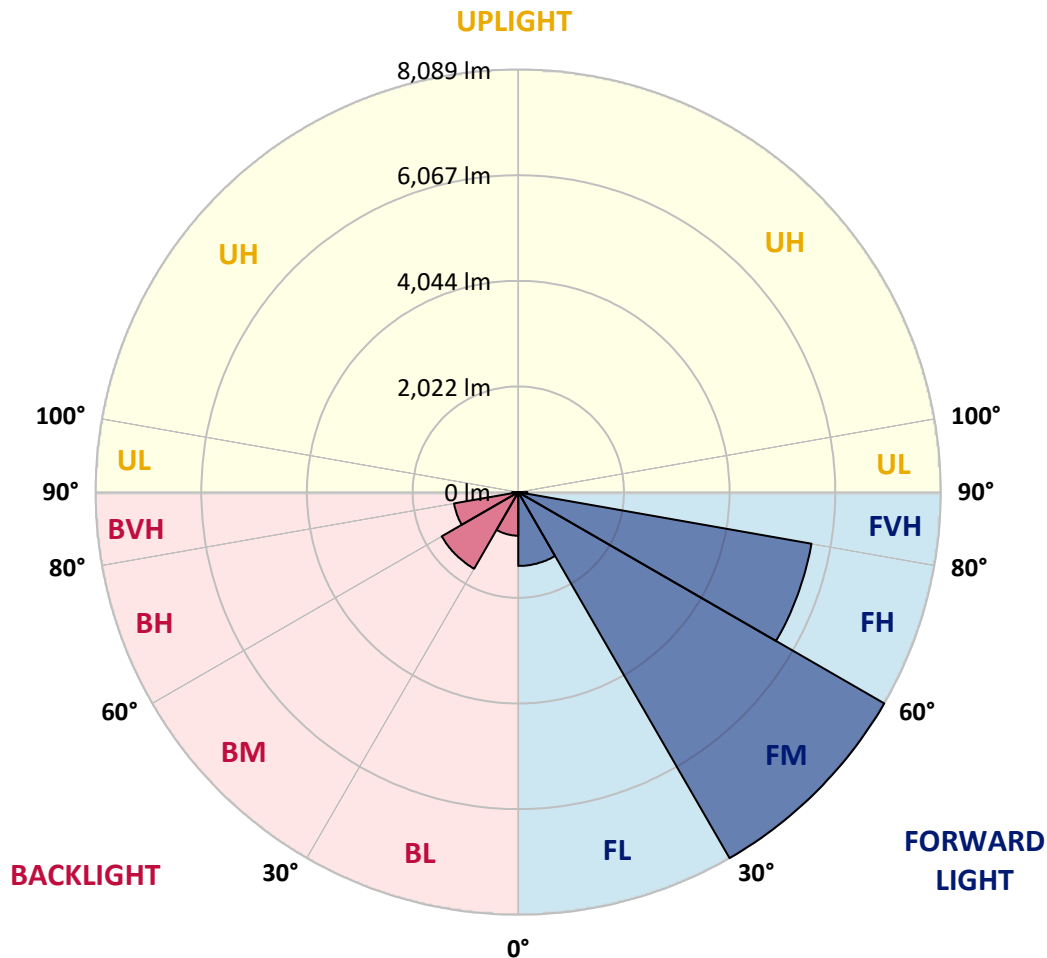
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.3	7.3			
FM (30°-60°)	8088.7	42.0			
FH (60°-80°)	5698.2	29.6			G3/7500
FVH (80°-90°)	175.6	0.9			G2/225
BL (0°-30°)	833.5	4.3	B2/1000		
BM (30°-60°)	1691.3	8.8	B2/2500		
BH (60°-80°)	1248.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	117.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6
2.5°	2587.3	2589.4	2589.4	2581.0	2583.1	2589.4	2566.1	2515.3	2515.3	2506.8	2492.0
5°	2746.3	2735.7	2720.8	2722.9	2714.5	2714.5	2689.0	2640.3	2597.9	2581.0	2536.5
7.5°	2767.4	2778.0	2775.9	2801.3	2814.1	2814.1	2826.8	2786.5	2722.9	2682.7	2638.2
10°	2809.8	2782.3	2780.2	2839.5	2858.6	2903.1	2953.9	2932.7	2879.8	2822.5	2763.2
12.5°	2835.3	2852.2	2852.2	2881.9	2926.4	2992.1	3081.1	3121.3	3038.7	2979.3	2888.2
15°	2873.4	2850.1	2917.9	2943.3	3028.1	3074.7	3201.8	3305.7	3250.6	3178.5	3034.4
17.5°	2890.3	2875.5	2913.7	2960.3	3104.4	3174.3	3329.0	3473.1	3426.5	3379.8	3231.5
20°	2977.2	2975.1	2992.1	3030.2	3134.0	3271.8	3464.6	3663.8	3680.7	3596.0	3394.7
22.5°	3189.1	3161.6	3161.6	3146.8	3191.2	3333.2	3593.9	3869.3	3945.6	3846.0	3579.0
25°	3384.1	3422.2	3398.9	3331.1	3314.2	3388.3	3687.1	4087.6	4189.3	4096.1	3829.1
27.5°	3634.1	3646.8	3687.1	3596.0	3479.4	3502.7	3788.8	4210.5	4420.3	4295.3	3971.1
30°	3994.4	3971.1	3962.6	3860.9	3708.3	3676.5	3905.4	4390.6	4723.3	4547.4	4138.5
32.5°	4238.0	4295.3	4293.1	4153.3	3968.9	3899.0	4049.5	4560.1	5047.5	4884.3	4447.8
35°	4721.2	4780.5	4733.9	4528.4	4312.2	4172.4	4257.1	4780.5	5418.3	5291.2	4710.6
37.5°	5337.8	5477.7	5378.1	4998.8	4693.6	4541.1	4545.3	5020.0	5797.6	5693.8	4992.4
40°	5763.7	5952.3	5814.6	5458.6	5134.4	4990.3	4933.1	5303.9	6251.1	6140.9	5433.2
42.5°	6291.4	6448.2	6376.1	6024.4	5645.1	5522.2	5407.7	5778.6	6944.0	6893.2	5999.0
45°	6867.8	6941.9	6918.6	6696.1	6274.4	6232.0	5979.9	6403.7	7759.9	7781.1	6706.7
47.5°	7403.9	7444.1	7488.6	7327.6	7064.8	7100.8	6638.9	7073.3	8552.4	8692.2	7495.0
50°	7541.6	7679.3	7783.2	7891.2	7948.5	8192.1	7365.7	7895.5	9463.6	9734.8	8372.3
52.5°	7401.7	7391.2	7706.9	8045.9	8618.1	9128.8	8355.3	8916.9	10268.8	10804.9	9175.4
55°	6766.0	6744.9	7253.4	7702.7	8819.4	9650.0	9768.7	10277.3	11241.4	11938.6	10262.4
57.5°	5653.6	5522.2	6077.4	6814.8	8382.9	9707.2	11188.4	12296.7	12737.5	13532.1	11921.6
60°	3799.4	3744.3	4276.2	5155.6	6806.3	8895.7	12038.2	14824.7	14845.9	15740.1	14496.2
62.5°	2339.4	2350.0	2691.2	3350.2	4765.7	7052.1	11671.6	16844.1	16848.4	17744.7	16615.3
65°	1529.9	1536.3	1811.8	2176.2	2977.2	4782.6	9652.2	17003.0	18240.6	19073.3	17585.8
66°	1362.5	1364.7	1602.0	1898.6	2466.5	3913.8	8524.8	16589.8	18554.2	19249.2	17573.1
67.5°	1148.5	1176.1	1366.8	1595.6	1924.1	2811.9	6763.9	15394.7	18393.1	19003.4	17174.7
70°	898.5	913.3	1063.7	1296.8	1443.1	1627.4	4019.8	12548.9	16835.6	17825.2	15725.3
72.5°	720.5	733.2	847.6	1053.2	1171.8	1072.2	2189.0	9105.4	13299.0	14354.3	12368.7
75°	608.2	610.3	665.4	828.5	964.2	805.2	1165.5	5844.3	8533.3	9024.9	7577.6
77.5°	491.6	500.1	538.2	631.5	775.6	633.6	695.0	3273.9	4284.7	4320.7	3502.7
80°	400.5	404.7	428.0	459.8	591.2	468.3	470.4	1597.7	1837.2	1794.8	1424.0
82.5°	315.7	320.0	347.5	341.2	434.4	334.8	292.4	769.2	845.5	828.5	654.8
85°	178.0	178.0	273.4	273.4	275.5	211.9	178.0	362.4	447.1	417.4	307.3
87.5°	57.2	59.3	82.6	86.9	137.7	95.4	86.9	135.6	211.9	186.5	110.2
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°	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6	2432.6
2.5°	2483.5	2449.6	2434.8	2386.0	2373.3	2341.5	2326.7	2307.6	2301.3	2273.7	2299.1
5°	2502.6	2492.0	2432.6	2371.2	2324.6	2303.4	2271.6	2229.2	2225.0	2186.8	2182.6
7.5°	2583.1	2547.1	2443.2	2377.5	2284.3	2231.3	2161.4	2140.2	2112.7	2100.0	2127.5
10°	2708.1	2617.0	2462.3	2297.0	2182.6	2119.0	2068.2	2053.3	2055.5	2047.0	2034.3
12.5°	2797.1	2710.2	2430.5	2229.2	2080.9	2019.4	2015.2	2030.0	2053.3	2042.7	2057.6
15°	2924.3	2761.1	2407.2	2116.9	1998.2	1981.3	1979.2	2023.7	2021.5	2021.5	2019.4
17.5°	3042.9	2811.9	2322.4	2019.4	1911.4	1924.1	1938.9	1936.8	1958.0	1966.5	1981.3
20°	3193.4	2871.3	2203.8	1922.0	1845.7	1841.4	1839.3	1841.4	1862.6	1875.3	1864.7
22.5°	3324.7	2884.0	2104.2	1828.7	1767.3	1750.3	1722.8	1750.3	1739.7	1744.0	1756.7
25°	3439.2	2886.1	1962.2	1758.8	1688.9	1650.7	1629.5	1627.4	1608.3	1606.2	1606.2
27.5°	3534.5	2814.1	1837.2	1661.3	1595.6	1559.6	1557.5	1534.2	1485.4	1453.7	1457.9
30°	3608.7	2759.0	1750.3	1576.6	1513.0	1506.6	1487.6	1434.6	1371.0	1330.7	1330.7
32.5°	3740.1	2648.8	1631.6	1489.7	1457.9	1449.4	1404.9	1358.3	1299.0	1260.8	1254.5
35°	3837.6	2547.1	1553.2	1415.5	1400.7	1383.7	1345.6	1294.7	1277.8	1269.3	1275.7
37.5°	3947.7	2432.6	1457.9	1351.9	1366.8	1335.0	1290.5	1267.2	1326.5	1311.7	1318.0
40°	4123.6	2352.1	1364.7	1313.8	1328.6	1292.6	1235.4	1226.9	1301.1	1248.1	1235.4
42.5°	4445.7	2350.0	1307.4	1256.6	1267.2	1239.6	1188.8	1184.5	1214.2	1150.6	1131.6
45°	4846.2	2424.2	1265.1	1214.2	1205.7	1201.5	1184.5	1165.5	1140.0	1057.4	1036.2
47.5°	5325.1	2544.9	1256.6	1150.6	1161.2	1197.2	1176.1	1127.3	1061.6	1008.7	998.1
50°	5905.7	2795.0	1235.4	1104.0	1123.1	1180.3	1163.3	1095.5	1036.2	1002.3	995.9
52.5°	6547.8	3110.7	1207.8	1032.0	1074.3	1165.5	1173.9	1110.4	1023.5	993.8	989.6
55°	7304.3	3576.9	1176.1	953.6	1017.1	1150.6	1173.9	1068.0	1006.5	1006.5	1002.3
57.5°	8798.2	4416.0	1110.4	881.5	966.3	1123.1	1140.0	1070.1	1008.7	1008.7	1000.2
60°	10989.3	5725.6	985.3	826.4	917.5	1084.9	1114.6	1038.3	985.3	998.1	995.9
62.5°	12703.5	6124.0	879.4	773.4	868.8	1015.0	1080.7	1004.4	957.8	1004.4	1008.7
65°	13070.1	5721.4	771.3	716.2	801.0	947.2	1032.0	955.7	917.5	1008.7	1012.9
66°	12938.8	5407.7	733.2	699.3	771.3	913.3	1002.3	938.7	896.3	1004.4	1006.5
67.5°	12353.9	4937.3	690.8	663.3	731.1	864.6	968.4	915.4	862.4	991.7	972.6
70°	11082.5	4187.2	618.8	599.7	673.8	784.0	890.0	856.1	809.5	913.3	879.4
72.5°	8535.4	3345.9	542.5	544.6	608.2	701.4	811.6	788.3	748.0	801.0	779.8
75°	5198.0	2138.1	472.5	476.8	529.8	623.0	737.4	720.5	671.7	701.4	690.8
77.5°	2303.4	1059.5	398.4	406.9	449.2	548.8	642.1	614.5	563.7	570.0	565.8
80°	894.2	502.2	324.2	334.8	362.4	438.6	531.9	506.4	461.9	453.5	449.2
82.5°	430.2	279.7	250.0	254.3	264.9	349.6	457.7	425.9	366.6	328.4	328.4
85°	216.1	173.8	175.9	161.0	175.9	237.3	309.4	258.5	214.0	190.7	195.0
87.5°	86.9	86.9	86.9	74.2	78.4	112.3	144.1	97.5	89.0	53.0	53.0
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)