

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: P476552

Luminaire Tested: **IFLD-S-SA2A-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

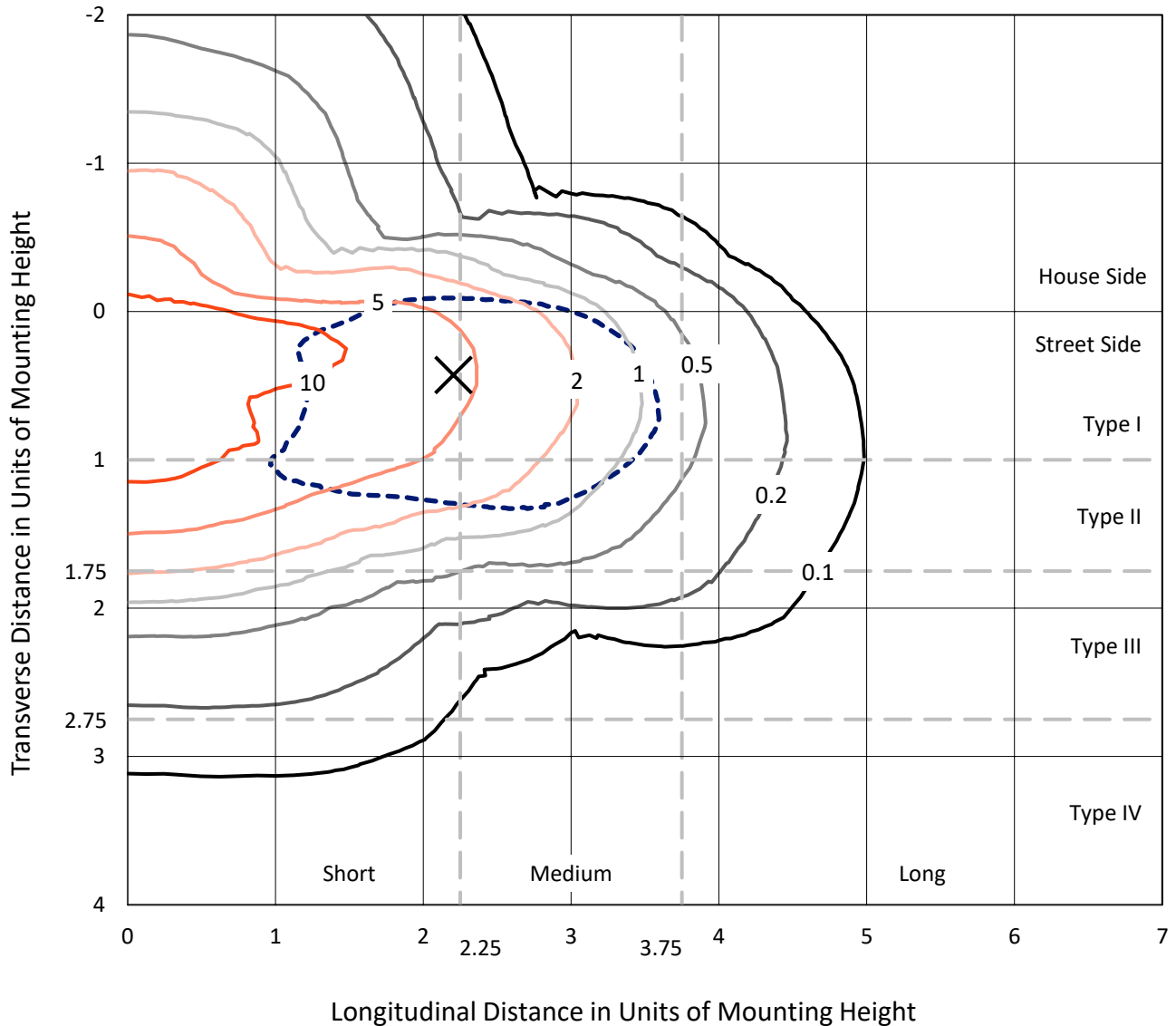
Lumens per Lamp: N/A
Luminaire Lumens: 9094.7 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

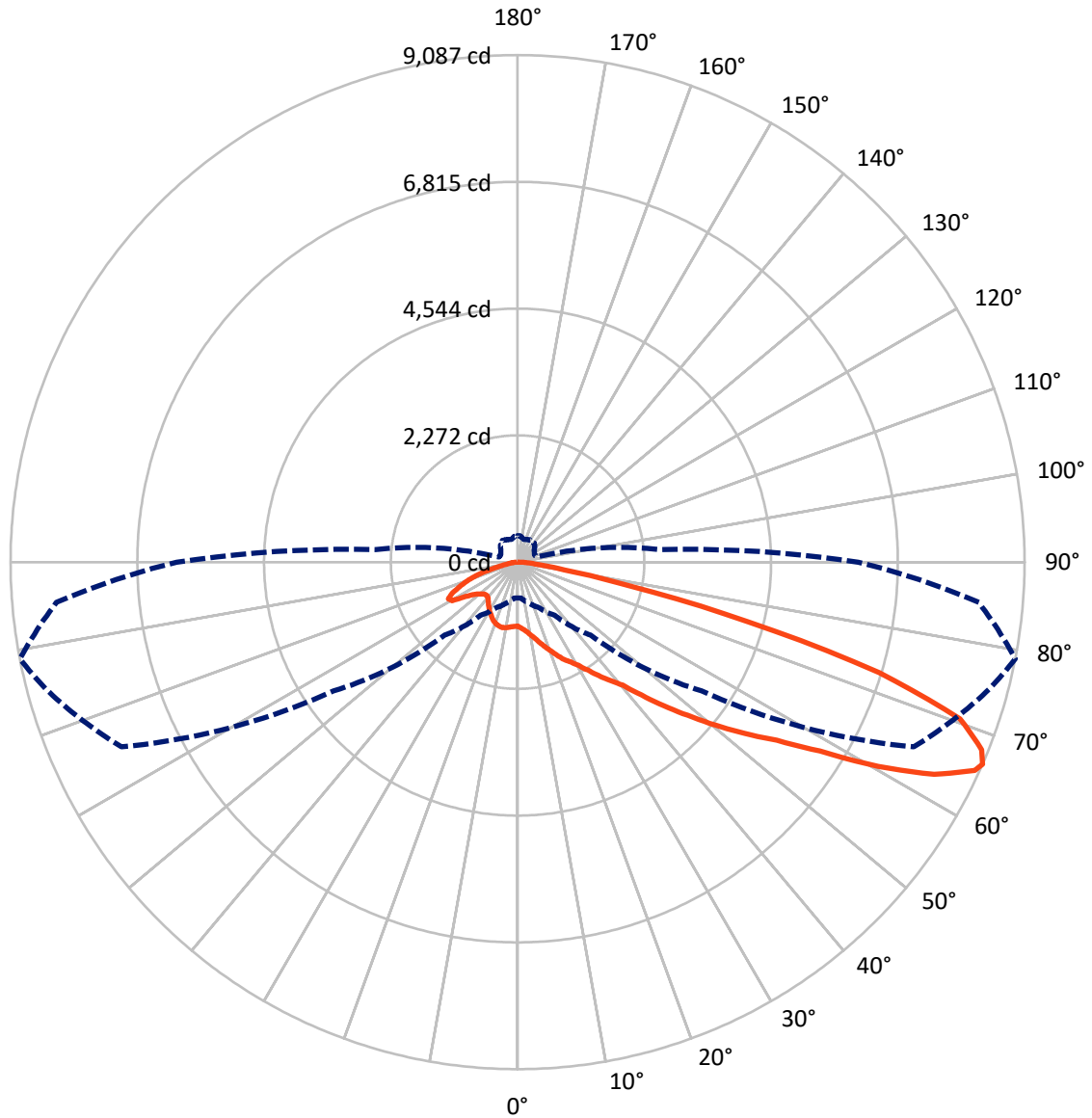
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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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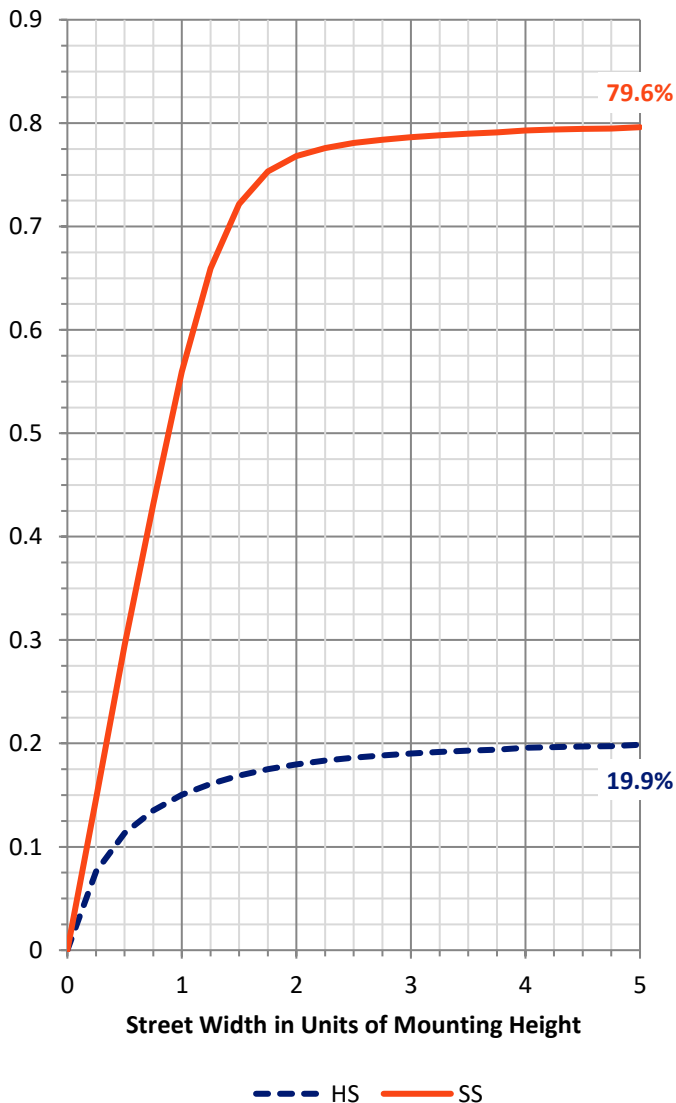
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1836.6	0.0	1836.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	7258.2	0.0	7258.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	9094.7	0.0	9094.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.2
10°-20°	348.7	3.8
20°-30°	598.6	6.6
30°-40°	924.6	10.2
40°-50°	1481.1	16.3
50°-60°	2211.3	24.3
60°-70°	2272.1	25.0
70°-80°	1007.2	11.1
80°-90°	138.2	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°	9094.7	100.0
0°-180°	9094.7	100.0



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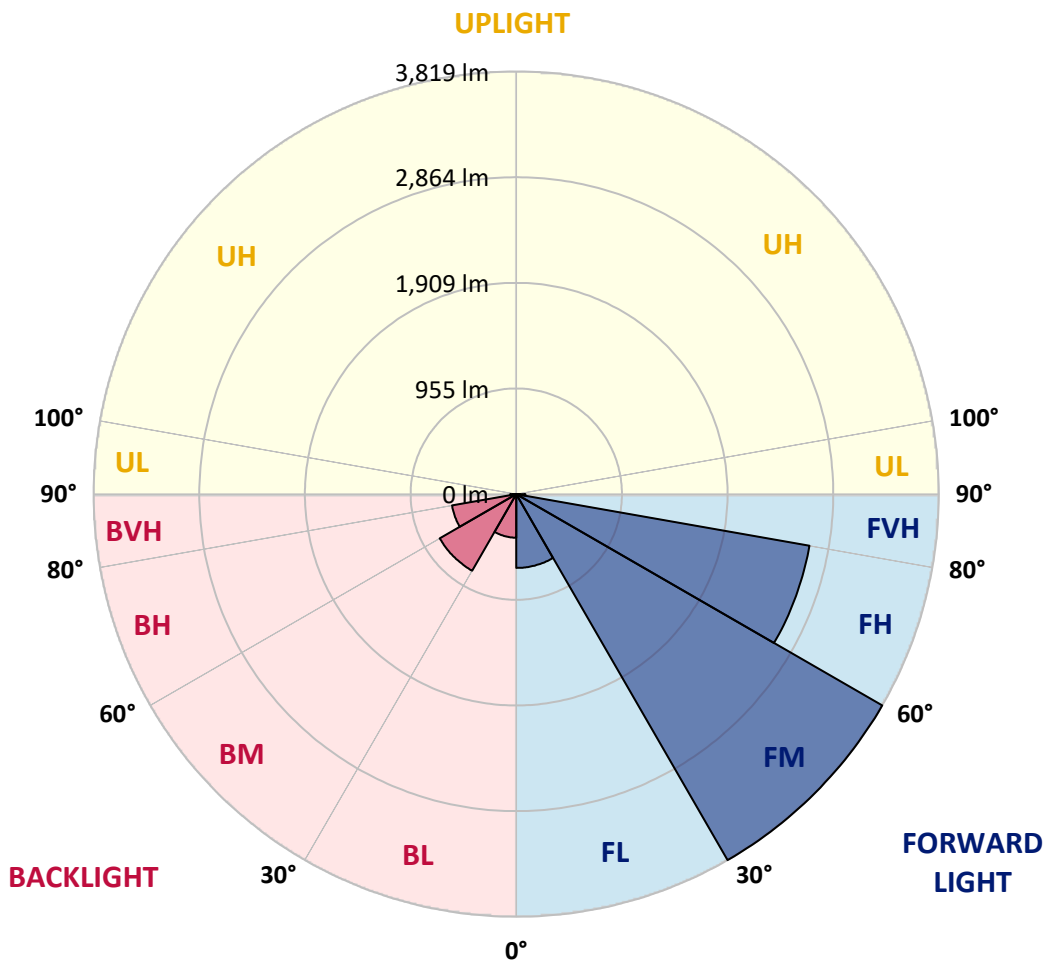
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.7	7.3			
FM (30°-60°)	3818.6	42.0			
FH (60°-80°)	2690.0	29.6			G2/5000
FVH (80°-90°)	82.9	0.9			G1/100
BL (0°-30°)	393.5	4.3	B1/500		
BM (30°-60°)	798.5	8.8	B1/1000		
BH (60°-80°)	589.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	55.3	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1221.4	1222.4	1222.4	1218.4	1219.4	1222.4	1211.4	1187.4	1187.4	1183.4	1176.4
5°	1296.5	1291.5	1284.5	1285.5	1281.5	1281.5	1269.5	1246.4	1226.4	1218.4	1197.4
7.5°	1306.5	1311.5	1310.5	1322.5	1328.5	1328.5	1334.5	1315.5	1285.5	1266.5	1245.4
10°	1326.5	1313.5	1312.5	1340.5	1349.5	1370.5	1394.5	1384.5	1359.5	1332.5	1304.5
12.5°	1338.5	1346.5	1346.5	1360.5	1381.5	1412.5	1454.5	1473.5	1434.5	1406.5	1363.5
15°	1356.5	1345.5	1377.5	1389.5	1429.5	1451.5	1511.5	1560.6	1534.6	1500.5	1432.5
17.5°	1364.5	1357.5	1375.5	1397.5	1465.5	1498.5	1571.6	1639.6	1617.6	1595.6	1525.6
20°	1405.5	1404.5	1412.5	1430.5	1479.5	1544.6	1635.6	1729.6	1737.6	1697.6	1602.6
22.5°	1505.5	1492.5	1492.5	1485.5	1506.5	1573.6	1696.6	1826.7	1862.7	1815.7	1689.6
25°	1597.6	1615.6	1604.6	1572.6	1564.6	1599.6	1740.6	1929.7	1977.7	1933.7	1807.7
27.5°	1715.6	1721.6	1740.6	1697.6	1642.6	1653.6	1788.6	1987.7	2086.8	2027.7	1874.7
30°	1885.7	1874.7	1870.7	1822.7	1750.6	1735.6	1843.7	2072.7	2229.8	2146.8	1953.7
32.5°	2000.7	2027.7	2026.7	1960.7	1873.7	1840.7	1911.7	2152.8	2382.9	2305.8	2099.8
35°	2228.8	2256.8	2234.8	2137.8	2035.7	1969.7	2009.7	2256.8	2557.9	2497.9	2223.8
37.5°	2519.9	2585.9	2538.9	2359.9	2215.8	2143.8	2145.8	2369.9	2737.0	2688.0	2356.9
40°	2721.0	2810.0	2745.0	2576.9	2423.9	2355.9	2328.8	2503.9	2951.1	2899.0	2564.9
42.5°	2970.1	3044.1	3010.1	2844.0	2665.0	2606.9	2552.9	2728.0	3278.2	3254.2	2832.0
45°	3242.2	3277.2	3266.2	3161.1	2962.1	2942.1	2823.0	3023.1	3663.3	3673.3	3166.1
47.5°	3495.3	3514.3	3535.3	3459.2	3335.2	3352.2	3134.1	3339.2	4037.5	4103.5	3538.3
50°	3560.3	3625.3	3674.3	3725.3	3752.4	3867.4	3477.3	3727.3	4467.6	4595.7	3952.4
52.5°	3494.3	3489.3	3638.3	3798.4	4068.5	4309.6	3944.4	4209.5	4847.7	5100.8	4331.6
55°	3194.2	3184.1	3424.2	3636.3	4163.5	4555.6	4611.7	4851.8	5306.9	5636.0	4844.7
57.5°	2669.0	2606.9	2869.0	3217.2	3957.4	4582.7	5281.9	5805.1	6013.2	6388.3	5628.0
60°	1793.6	1767.6	2018.7	2433.9	3213.2	4199.5	5683.1	6998.5	7008.5	7430.7	6843.5
62.5°	1104.4	1109.4	1270.5	1581.6	2249.8	3329.2	5510.0	7951.9	7953.9	8377.0	7843.8
65°	722.3	725.3	855.3	1027.4	1405.5	2257.8	4556.6	8026.9	8611.1	9004.2	8302.0
66°	643.2	644.2	756.3	896.3	1164.4	1847.7	4024.5	7831.8	8759.2	9087.3	8296.0
67.5°	542.2	555.2	645.2	753.3	908.3	1327.5	3193.2	7267.6	8683.1	8971.2	8107.9
70°	424.2	431.2	502.2	612.2	681.2	768.3	1897.7	5924.1	7947.9	8415.0	7423.7
72.5°	340.1	346.1	400.1	497.2	553.2	506.2	1033.4	4298.6	6278.3	6776.4	5839.1
75°	287.1	288.1	314.1	391.1	455.2	380.1	550.2	2759.0	4028.5	4260.5	3577.3
77.5°	232.1	236.1	254.1	298.1	366.1	299.1	328.1	1545.6	2022.7	2039.7	1653.6
80°	189.1	191.1	202.1	217.1	279.1	221.1	222.1	754.3	867.3	847.3	672.2
82.5°	149.1	151.1	164.1	161.1	205.1	158.1	138.0	363.1	399.1	391.1	309.1
85°	84.0	84.0	129.0	129.0	130.0	100.0	84.0	171.1	211.1	197.1	145.1
87.5°	27.0	28.0	39.0	41.0	65.0	45.0	41.0	64.0	100.0	88.0	52.0
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°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1172.4	1156.4	1149.4	1126.4	1120.4	1105.4	1098.4	1089.4	1086.4	1073.4	1085.4
5°	1181.4	1176.4	1148.4	1119.4	1097.4	1087.4	1072.4	1052.4	1050.4	1032.4	1030.4
7.5°	1219.4	1202.4	1153.4	1122.4	1078.4	1053.4	1020.4	1010.4	997.4	991.4	1004.4
10°	1278.5	1235.4	1162.4	1084.4	1030.4	1000.4	976.4	969.3	970.4	966.3	960.3
12.5°	1320.5	1279.5	1147.4	1052.4	982.4	953.3	951.3	958.3	969.3	964.3	971.4
15°	1380.5	1303.5	1136.4	999.4	943.3	935.3	934.3	955.3	954.3	954.3	953.3
17.5°	1436.5	1327.5	1096.4	953.3	902.3	908.3	915.3	914.3	924.3	928.3	935.3
20°	1507.5	1355.5	1040.4	907.3	871.3	869.3	868.3	869.3	879.3	885.3	880.3
22.5°	1569.6	1361.5	993.4	863.3	834.3	826.3	813.3	826.3	821.3	823.3	829.3
25°	1623.6	1362.5	926.3	830.3	797.3	779.3	769.3	768.3	759.3	758.3	758.3
27.5°	1668.6	1328.5	867.3	784.3	753.3	736.3	735.3	724.3	701.3	686.2	688.2
30°	1703.6	1302.5	826.3	744.3	714.3	711.3	702.3	677.2	647.2	628.2	628.2
32.5°	1765.6	1250.5	770.3	703.3	688.2	684.2	663.2	641.2	613.2	595.2	592.2
35°	1811.7	1202.4	733.3	668.2	661.2	653.2	635.2	611.2	603.2	599.2	602.2
37.5°	1863.7	1148.4	688.2	638.2	645.2	630.2	609.2	598.2	626.2	619.2	622.2
40°	1946.7	1110.4	644.2	620.2	627.2	610.2	583.2	579.2	614.2	589.2	583.2
42.5°	2098.8	1109.4	617.2	593.2	598.2	585.2	561.2	559.2	573.2	543.2	534.2
45°	2287.8	1144.4	597.2	573.2	569.2	567.2	559.2	550.2	538.2	499.2	489.2
47.5°	2513.9	1201.4	593.2	543.2	548.2	565.2	555.2	532.2	501.2	476.2	471.2
50°	2788.0	1319.5	583.2	521.2	530.2	557.2	549.2	517.2	489.2	473.2	470.2
52.5°	3091.1	1468.5	570.2	487.2	507.2	550.2	554.2	524.2	483.2	469.2	467.2
55°	3448.2	1688.6	555.2	450.2	480.2	543.2	554.2	504.2	475.2	475.2	473.2
57.5°	4153.5	2084.8	524.2	416.2	456.2	530.2	538.2	505.2	476.2	476.2	472.2
60°	5187.9	2703.0	465.2	390.1	433.2	512.2	526.2	490.2	465.2	471.2	470.2
62.5°	5997.2	2891.0	415.1	365.1	410.1	479.2	510.2	474.2	452.2	474.2	476.2
65°	6170.2	2701.0	364.1	338.1	378.1	447.2	487.2	451.2	433.2	476.2	478.2
66°	6108.2	2552.9	346.1	330.1	364.1	431.2	473.2	443.2	423.2	474.2	475.2
67.5°	5832.1	2330.8	326.1	313.1	345.1	408.1	457.2	432.2	407.1	468.2	459.2
70°	5231.9	1976.7	292.1	283.1	318.1	370.1	420.2	404.1	382.1	431.2	415.1
72.5°	4029.5	1579.6	256.1	257.1	287.1	331.1	383.1	372.1	353.1	378.1	368.1
75°	2453.9	1009.4	223.1	225.1	250.1	294.1	348.1	340.1	317.1	331.1	326.1
77.5°	1087.4	500.2	188.1	192.1	212.1	259.1	303.1	290.1	266.1	269.1	267.1
80°	422.2	237.1	153.1	158.1	171.1	207.1	251.1	239.1	218.1	214.1	212.1
82.5°	203.1	132.0	118.0	120.0	125.0	165.1	216.1	201.1	173.1	155.1	155.1
85°	102.0	82.0	83.0	76.0	83.0	112.0	146.1	122.0	101.0	90.0	92.0
87.5°	41.0	41.0	41.0	35.0	37.0	53.0	68.0	46.0	42.0	25.0	25.0
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)