

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: P478659

Luminaire Tested: **IFLD-S-SA2B-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478659
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

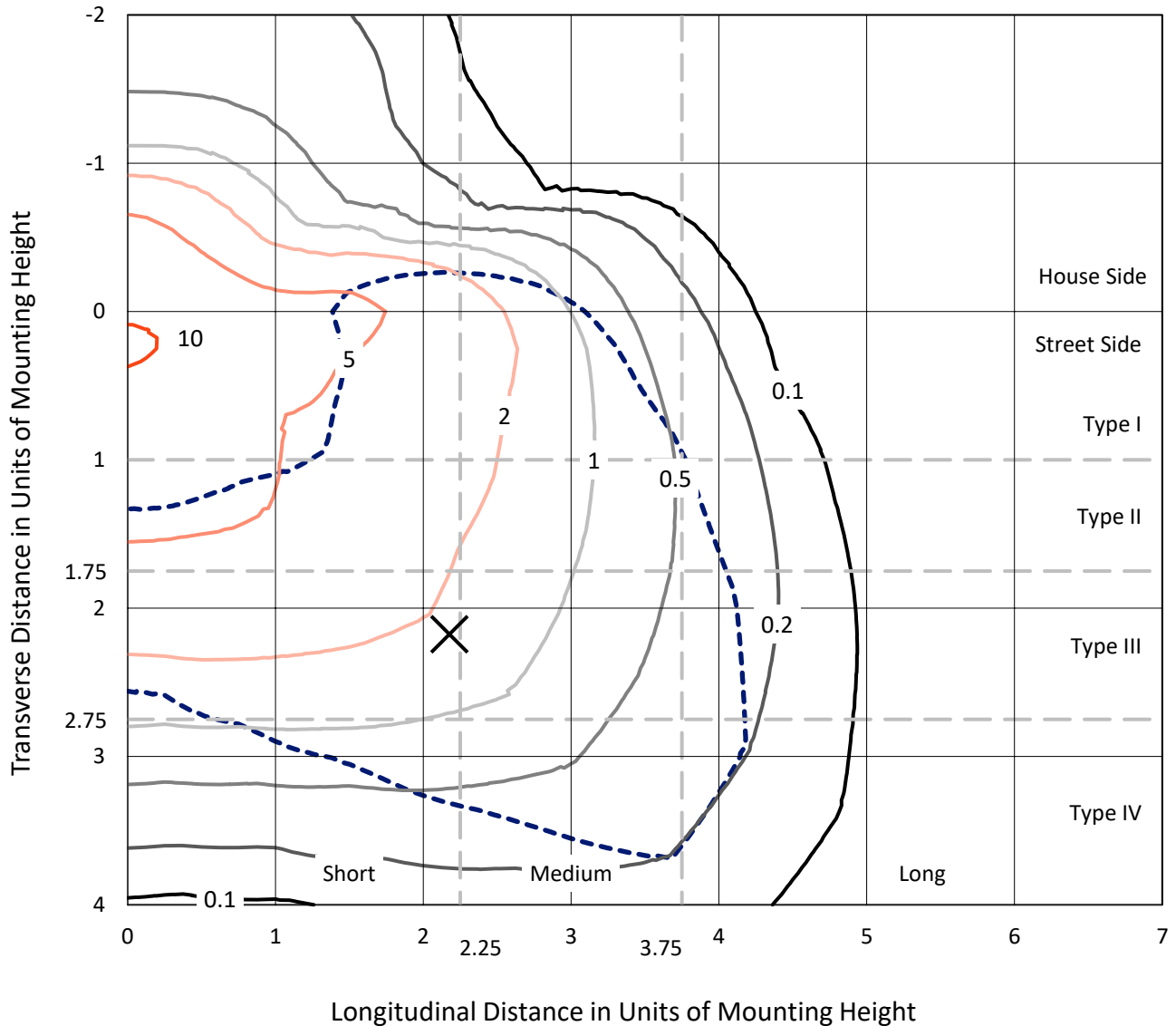
Lumens per Lamp: N/A
Luminaire Lumens: 8483.7 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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: P478659
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

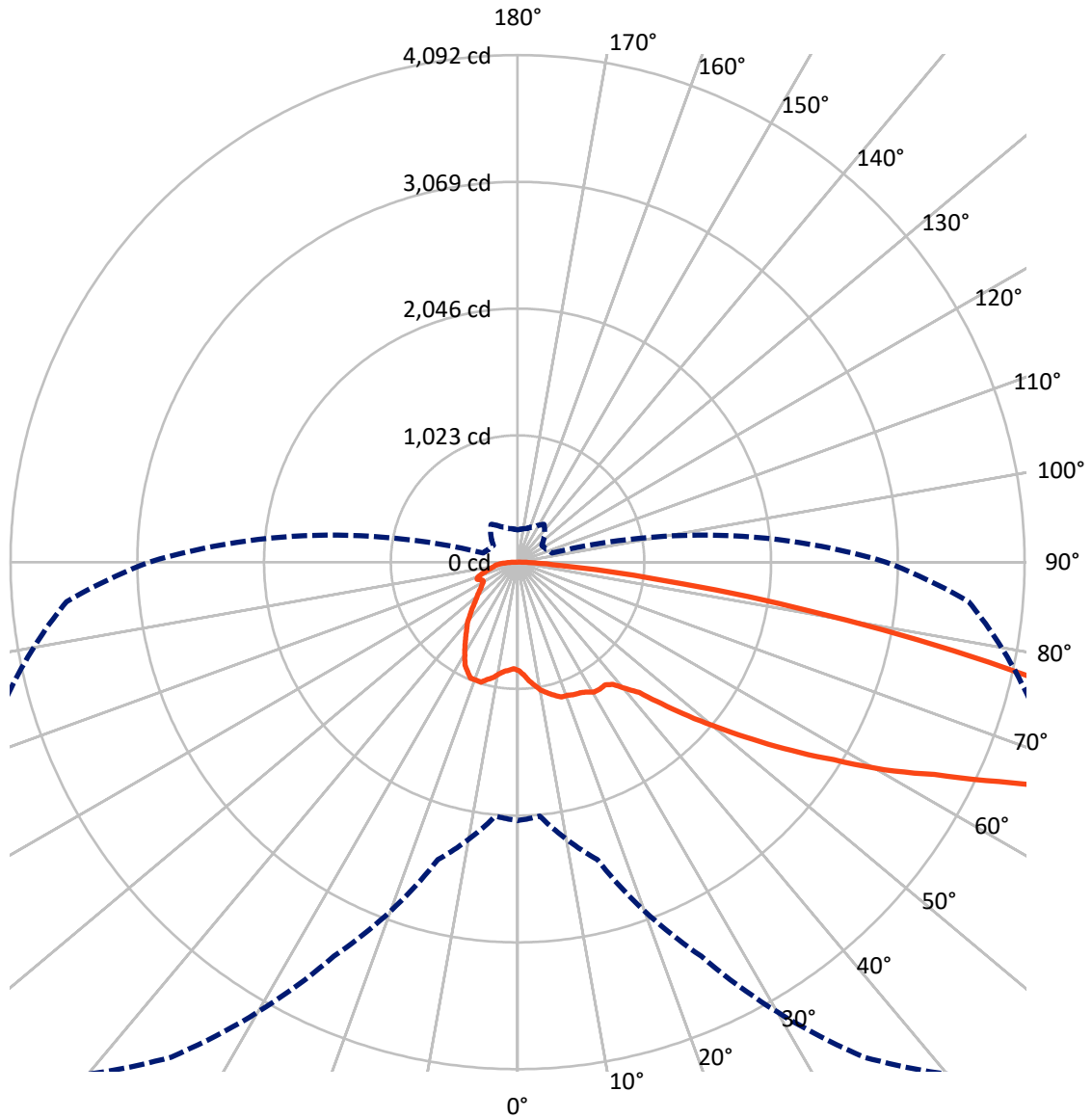
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P478659
CATALOG NUMBER: IFLD-S-SA2B-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478659
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T4W

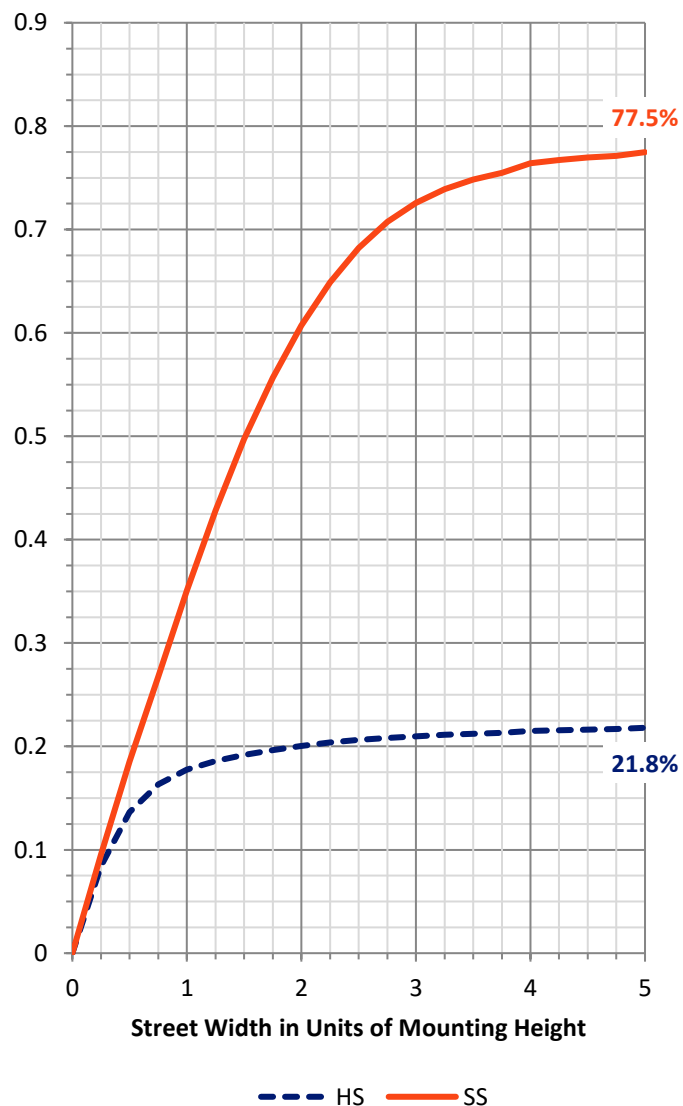
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.5	0.0	1888.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6595.2	0.0	6595.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	8483.7	0.0	8483.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.1
10°-20°	297.4	3.5
20°-30°	502.3	5.9
30°-40°	695.1	8.2
40°-50°	994.3	11.7
50°-60°	1603.6	18.9
60°-70°	2365.1	27.9
70°-80°	1717.5	20.2
80°-90°	218.9	2.6
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°	8483.7	100.0
0°-180°	8483.7	100.0

Coefficient of Utilization



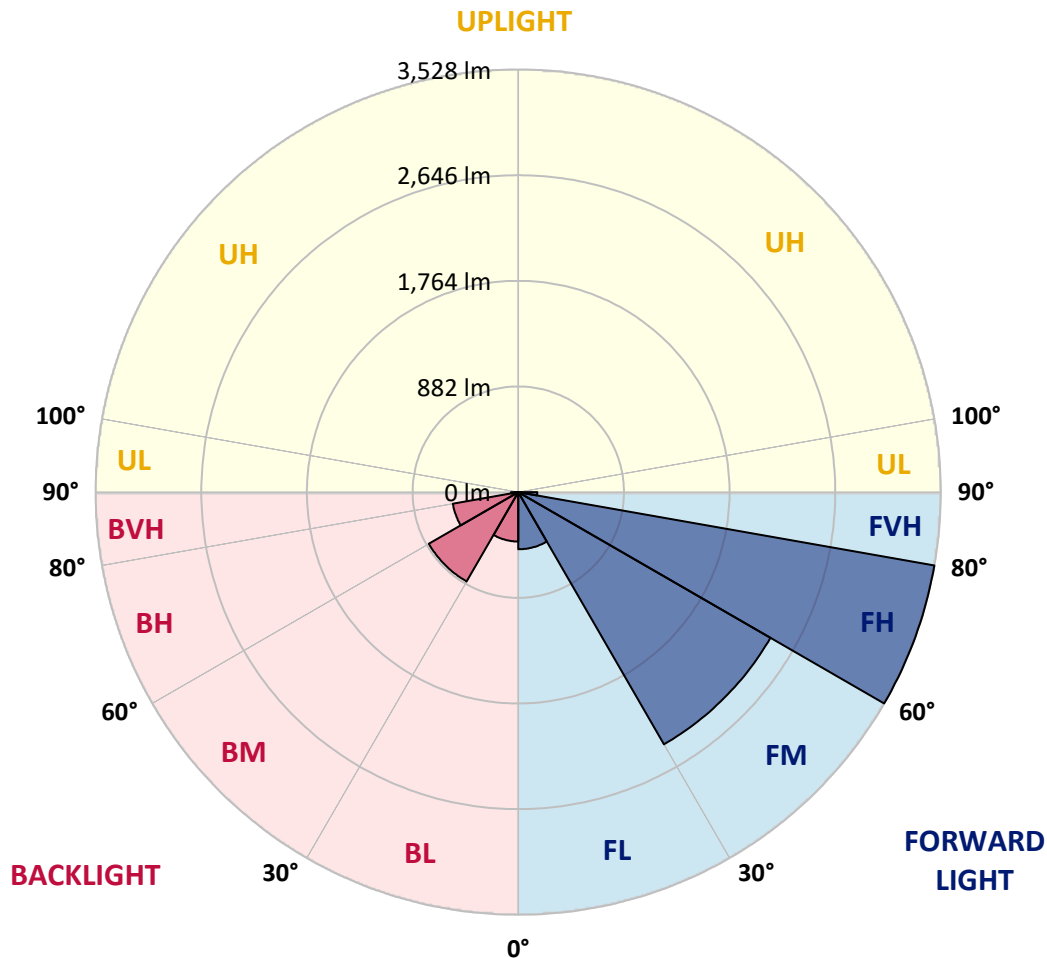
REPORT NUMBER: P478659
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.8	5.6			
FM	(30°-60°)	2431.1	28.7			
FH	(60°-80°)	3527.9	41.6			G2/5000
FVH	(80°-90°)	159.4	1.9			G2/225
BL	(0°-30°)	412.3	4.9	B1/500		
BM	(30°-60°)	861.9	10.2	B1/1000		
BH	(60°-80°)	554.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	59.6	0.7			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 IV Short





REPORT NUMBER: P478659

CATALOG NUMBER: IFLD-S-SA2B-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7
2.5°	920.3	925.8	920.3	919.4	910.3	903.9	909.3	901.1	892.0	888.3	880.1
5°	1004.5	1005.4	995.3	996.3	977.0	956.9	960.6	935.9	909.3	899.3	882.8
7.5°	1090.5	1080.4	1065.8	1061.2	1031.0	1009.1	1006.3	984.4	943.2	920.3	897.5
10°	1146.3	1149.9	1126.2	1106.0	1080.4	1053.9	1053.0	1011.8	988.0	954.2	924.9
12.5°	1195.7	1196.6	1176.5	1144.5	1112.4	1079.5	1084.1	1065.8	1025.5	993.5	964.2
15°	1234.1	1228.6	1206.7	1177.4	1143.5	1117.9	1115.2	1099.6	1065.8	1039.3	990.8
17.5°	1245.1	1242.3	1220.4	1189.3	1156.3	1137.1	1144.5	1118.8	1105.1	1081.3	1034.7
20°	1224.0	1217.6	1214.0	1179.2	1155.4	1153.6	1147.2	1152.7	1129.8	1107.9	1074.0
22.5°	1185.6	1182.9	1181.0	1153.6	1142.6	1150.9	1161.8	1170.1	1166.4	1145.4	1106.9
25°	1146.3	1159.1	1147.2	1134.4	1149.9	1171.0	1168.2	1194.8	1194.8	1188.4	1156.3
27.5°	1173.7	1165.5	1156.3	1149.9	1155.4	1188.4	1186.5	1218.6	1230.5	1218.6	1182.0
30°	1242.3	1234.1	1207.6	1179.2	1171.9	1207.6	1216.7	1245.1	1250.6	1221.3	1190.2
32.5°	1371.3	1366.8	1324.7	1241.4	1196.6	1216.7	1221.3	1253.3	1248.7	1230.5	1217.6
35°	1562.5	1547.0	1488.4	1347.5	1248.7	1228.6	1216.7	1242.3	1259.7	1250.6	1238.7
37.5°	1772.0	1754.6	1682.4	1504.0	1343.0	1260.6	1251.5	1272.5	1292.7	1288.1	1263.4
40°	1972.4	1972.4	1907.4	1699.8	1482.9	1338.4	1340.2	1316.4	1334.7	1326.5	1331.1
42.5°	2170.0	2162.7	2136.1	1929.4	1633.0	1468.3	1439.0	1379.6	1412.5	1409.8	1416.2
45°	2370.3	2364.8	2357.5	2143.5	1848.0	1644.0	1628.4	1521.4	1551.6	1538.7	1566.2
47.5°	2530.4	2536.8	2536.8	2382.2	2077.6	1878.2	1855.3	1686.0	1743.7	1750.1	1756.5
50°	2666.7	2669.5	2666.7	2610.0	2333.7	2146.2	2099.5	1927.6	1985.2	2035.5	2094.1
52.5°	2855.2	2858.9	2846.0	2824.1	2681.4	2428.0	2375.8	2184.6	2302.6	2355.7	2460.9
55°	3087.6	3060.1	3036.3	3052.8	3015.3	2738.1	2684.1	2449.9	2627.4	2697.8	2908.3
57.5°	3130.6	3154.3	3214.7	3345.5	3399.5	3040.0	3008.9	2775.6	2994.2	3055.5	3406.8
60°	3282.4	3243.1	3391.3	3674.9	3735.3	3433.4	3401.3	3132.4	3359.3	3423.3	3867.0
62.5°	3382.1	3380.3	3599.9	3936.5	4073.8	3841.4	3776.4	3596.2	3753.6	3815.8	4368.3
65°	3352.9	3379.4	3769.1	4090.2	4356.4	4305.2	4267.7	3995.1	4202.7	4197.3	4694.9
67.5°	3085.7	3160.7	3662.1	4200.9	4777.3	4870.6	4858.7	4555.9	4567.8	4451.6	4840.4
70°	2715.2	2689.6	3209.2	4085.6	4987.7	5541.1	5538.4	4973.0	4896.2	4507.4	4423.2
72°	2085.8	2057.5	2484.7	3508.4	4877.0	5809.2	5891.5	5262.1	4892.5	4275.9	3653.8
72.5°	1893.7	1869.0	2294.4	3302.5	4754.4	5878.7	5840.3	5273.1	4854.1	4167.1	3413.2
75°	871.8	843.5	1146.3	2021.8	3708.7	5209.1	5339.9	4934.6	4239.3	3317.2	2044.7
77.5°	259.8	251.6	368.7	816.0	2155.3	3837.7	3888.0	3723.4	2959.5	1816.9	758.4
80°	144.5	145.5	190.3	305.6	947.8	2218.5	2399.6	2299.9	1451.8	600.1	252.5
82.5°	80.5	85.1	118.9	181.1	435.5	1018.2	1096.0	1056.6	525.1	281.8	138.1
85°	42.1	43.9	62.2	97.0	247.0	322.0	331.2	355.0	272.6	192.1	74.1
87.5°	16.5	16.5	22.9	40.3	91.5	99.7	89.7	108.9	156.4	124.4	36.6
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: P478659
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7
2.5°	887.4	880.1	879.2	867.3	870.9	860.9	861.8	859.9	860.9	859.0	854.5
5°	882.8	877.3	861.8	871.8	862.7	875.5	885.6	881.9	884.6	883.7	884.6
7.5°	889.2	881.9	880.1	874.6	882.8	888.3	896.5	919.4	917.6	920.3	925.8
10°	908.4	900.2	894.7	902.9	898.4	915.7	924.9	936.8	957.8	958.7	947.8
12.5°	945.9	940.4	929.5	931.3	946.9	952.3	957.8	965.1	978.9	976.1	986.2
15°	988.9	977.0	970.6	968.8	972.5	978.9	978.0	985.3	992.6	999.0	996.3
17.5°	1020.0	1004.5	1006.3	1015.5	1014.5	1012.7	1000.8	997.2	1000.8	1004.5	1002.7
20°	1052.1	1053.9	1040.2	1031.9	1028.3	1010.0	1000.8	989.8	978.9	984.4	992.6
22.5°	1092.3	1084.1	1064.0	1039.3	1021.0	1010.0	981.6	962.4	962.4	967.9	965.1
25°	1138.1	1120.7	1085.9	1041.1	1018.2	971.6	951.4	948.7	941.4	949.6	953.3
27.5°	1173.7	1158.2	1110.6	1034.7	971.6	934.0	922.2	918.5	930.4	931.3	945.9
30°	1188.4	1183.8	1114.3	1018.2	924.0	863.6	856.3	872.8	885.6	904.8	905.7
32.5°	1207.6	1209.4	1119.8	979.8	861.8	801.4	790.4	810.5	847.1	862.7	874.6
35°	1239.6	1248.7	1115.2	932.2	795.9	738.3	736.4	741.9	777.6	805.1	820.6
37.5°	1295.4	1293.6	1114.3	875.5	743.8	683.4	668.7	670.6	694.4	717.2	714.5
40°	1370.4	1363.1	1111.5	801.4	676.1	636.7	612.0	602.9	601.0	594.6	596.5
42.5°	1472.9	1458.2	1110.6	726.4	614.8	572.7	555.3	531.5	514.1	481.2	483.0
45°	1615.6	1590.0	1086.8	655.9	554.4	519.6	493.1	475.7	438.2	397.0	397.0
47.5°	1836.1	1752.8	1087.7	578.2	495.8	467.5	449.2	419.0	378.7	345.8	342.1
50°	2160.8	1970.6	1056.6	516.9	448.3	429.1	409.8	375.1	336.7	313.8	316.5
52.5°	2579.8	2295.3	1055.7	462.0	410.8	397.0	376.0	344.9	316.5	301.9	296.4
55°	3079.3	2725.3	1088.7	417.2	372.3	365.0	355.9	330.3	302.8	290.0	289.1
57.5°	3590.7	3145.2	1141.7	385.1	339.4	344.9	338.5	318.4	296.4	281.8	279.9
60°	4045.4	3478.2	1034.7	346.7	310.1	322.0	331.2	313.8	301.9	301.0	294.6
62.5°	4388.5	3620.9	786.8	317.4	294.6	316.5	341.2	352.2	346.7	354.0	355.0
65°	4513.8	3534.9	541.6	301.9	282.7	329.3	384.2	380.6	348.6	334.8	342.1
67.5°	4338.1	3186.4	401.6	283.6	274.4	355.9	408.9	363.2	314.7	312.9	307.4
70°	3730.7	2700.6	327.5	264.4	260.7	341.2	398.0	336.7	296.4	284.5	279.0
72°	2972.3	2103.2	287.3	250.7	238.8	304.6	372.3	315.6	280.9	266.2	259.8
72.5°	2713.4	1949.5	281.8	244.3	234.2	296.4	359.5	309.2	277.2	264.4	254.3
75°	1488.4	998.1	247.9	224.1	197.6	256.2	333.0	290.0	261.6	243.3	241.5
77.5°	553.5	387.0	214.1	198.5	171.1	221.4	302.8	275.4	237.9	215.0	210.4
80°	212.2	204.0	174.7	167.4	143.6	193.9	279.0	247.0	202.2	179.3	172.0
82.5°	129.0	118.9	132.7	130.8	109.8	176.6	262.6	231.5	179.3	145.5	140.9
85°	70.4	70.4	92.4	88.7	76.8	140.9	198.5	153.7	113.4	93.3	95.1
87.5°	31.1	36.6	49.4	46.7	42.1	79.6	97.0	81.4	56.7	38.4	41.2
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)